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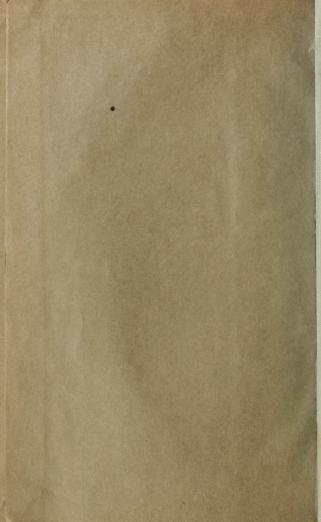
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PUBLICATIONS

FIELD MUSEUM OF NATURAL HISTORY

REPORT SERIES VOLUME VII



CHICAGO, U. S. A. 1926-1928



THE LATE DAVID C. DAVIES
Director of the Museum from December 19, 1921 to July 14, 1928, the date of his death

FIELD MUSEUM OF NATURAL HISTORY

FOUNDED BY MARSHALL FIELD, 1995

Publication 256

REPORT SERIES

VOL. VII, No. 3

ANNUAL REPORT OF THE DIRECTOR

TO THE

BOARD OF TRUSTEES

FOR THE YEAR 1928

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NATURAL VINIVERSITY OF ILLINOIS

CHICAGO

CHICAGO, U. S. A. January, 1929

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Bequests to field Museum of Natural History may be made in securities, makey, he is or collections. They may, if desired, take the form of a mean rul to the memory of a person or cause, to be samed by the gives. For those desiress of making bequests to the Museum, the following form a suggested:

FORM OF BEQUEST

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DAVID CHARLES DAVIES

June 10, 1866 - July 16, 1918 Fielded 19 restur Nevember 19, 1917.

During the pear under review the Moseon sustained a very serial has through the death of its Director, David Charles Davies, which two places, after an interes of several months, at his residence on July 14, 1928.

Mr. The escentered the service of the Museum in 1864 as Austra-He was successively Recorder, Assailant Secretary and Secretary, successing to the Directorship of the Museum in 1921 at the death of Dr. Fredering J. V. Said, the Museum's first Director.

Throughout his many years of connection with the Museum, Mr. Discuss performed his services with parlyment and ability and always is ugit the Museum's best interests.

Chosen to the position of Director by virtue of his administrative at the and perform in solvelpe of the needs and aims of the institutes. Mr Divise current on the Museum's work to new objectives and entarged its desire of assistance. He did not full share in helping to family up the Museum to the position it now company.

On July 16, 1928, the Board of Trustess adopted the following rescinting in tribute to the memory of Mr. Davies

"The Trustees of Field Museum of Natural History desire to express and record their deep serves at the loss which Day and the nathrino, have sustained by the death on July 14, 1928, of their follow Trustee, Servicing of the Board, and Director of the Susseum, David Charles Davies.

"Mr. Throws' connection with the Mounter dated shortly after its receptors and continued by the time of the dust, during which period be exerted a breef out officer, each its a fraction and devoted tomost to its referent with movem and filedly.

"As a preceder of the Board, the follow Trusteen placed great teleproc on Mr. Davier" pulgment and knowledge of the feests of the partituding and the best methods of preceding the progress.

"Mr. Davies" very able admir strates of the round and war of dates as in the Captest respect and enters of the Board of Trusteen 388 FIELD MUSEUM OF NATURAL HISTORY-REPORTS, VOL. VII

His unselfish labors on behalf of the Museum will bear fruit for many years to come.

"The Board of Trustees desires to have this expression of their appreciation of Mr. Davies' work and character spread upon the records of the institution and a duly attested copy thereof sent to the members of his bereaved family.

"STEPHEN C. SIMMS, Acting Secretary STANLEY FIELD, President"

ANNUAL RUPORT OF THE DIRECTOR.

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Teste Trusteer of Fig. 1 Massaco of Natural Hoters

I have the term to present a report of the special as of the Museum for the year entiry December 21, 1925

There is no not cause for gratification in the not exements of the Museum dures the facive months to be beteasth research. For the sense the entire have has exceeded or email to The monder at post the Museum has abown a healthy growth which indicate repeated appreciate a and approval by the public of the right. to the attention Patential permanent improvements have been made in the Museum builting, especially notable among their twent the installation of exhibits in all large new exhibition halo on the ground floor, which were opened to the public in June 18 estrum and with the Museum has maintained its proud resird of past cours, that it it is toom expectations in operation in widely scattered parts of the world during 1928. The Museum has been the recipient of many beneficitions from its friends. The institution's educational petrolles for both minits and children have kept pure with the s establis or many domains on the part of the public for our ratural egyertarches. Terraphoral the world attention has been I cased the agt the presson the activities of the Masoura, bogst e of the international prestige which the institution has always et, west situally entire in the entire the

The number of wanters to the Museum carrier 1928 was LCC and We en the long and frequent periods of unfavorable and unconsequences as weather with the unit prevailed during 1928 are taken into a securior to the settler with the fact that in 1927 there may consider to these for when a special event in Notice I said the into 1928 and with the fact that it is 1928 with the parts for the Museum, at will be seen, that the 1928 with the operation for which with that of the prevention verse. Load 546 546 The accesses 1949, he have been seen to be a pure for the second of the s

He exet enven is if patitive a diagram it is are due to the action are existenced in

the Museum through contributions in the form of memberships. The Museum now has on its rolls more than 5,000 Members—the exact figures by classifications, and a complete list of the names, are to be found in other sections of this Report.

The increase in the number of such contributors may well be considered as an indication of widening public approval and appreciation of the Museum and its mission. Each person registered on the rolls, through all the membership classes from Benefactors to Annual Members, is entitled to recognition as a public-spirited citizen who by his contribution is supporting a great educational work. Every one of these Members is helping the Museum to maintain and expand its activities in the fields of scientific research and dissemination of knowledge, and without their aid the institution's work would be seriously curtailed. The Museum is happy to acknowledge this support, and it is indeed a great satisfaction to note the continuing growth of the membership lists.

In recognition of the very valuable and eminent service rendered the Museum by Mr. William V. Kelley, the Trustees have elected him as a Benefactor, and they have named Hall 17 (which is to be devoted to Asiatic mammals, some groups of which have already been installed) "William V. Kelley Hall."

During 1928 the Trustees also elected Mrs. Emily Crane Chadbourne and Mrs. William H. Moore as Patrons of the Museum because of their generous help to and interest in the institution.

The following were elected Life Members: Mr. George E. Brannon, Mr. Reuben G. Chandler, Mr. Russell Tyson, Mr. R. Douglas Stuart, Mr. Alfred E. Hamill, Mr. Homer L. Dixon, Mrs. Harold E. Leopold, Mr. Edward J. Ryerson, Mr. Arthur Reynolds, Mrs. Watson F. Blair, Mr. Frank A. Hecht, Jr., Mr. Edward N. Hurley, Mr. John Jay Abbott, Mr. John Griffiths, Mr. Moise Dryfus, and Mr. Robert A. Gardner.

Prominent among the many important activities undertaken during 1928 was the completion and opening to the public of six large new exhibition halls in the Department of Anthropology. These halls were opened in June, and are the first six to be completed of a total of fourteen which are being added to the exhibition space through extensive reconstruction of the Museum's ground floor. This project has been made possible through the generosity of President Stanley Field.

The six new halls opened in 1928 contain new collections illustrating the ethnology of Africa and Madagascar (the latter being

the results of the Capitan Marshall Dell Anthrop logical Lipertito a to Madagascar in 1956 TI, as i public the world's firest and the set its sent, and also enlarged and remetal of collections representing the ethnicipal of Policiena Melatenia, Malay Petitio and Malay Act pelays, It price Islands, India, Sheria and Liven at 1 Egyptian incline by . The additional area gamed by transfer ing this large part of the pround floor into splended earth they take an acts to Escent agains feet. Further details onto sees by these by such the constitute that contains will be four . e remitere in the Helenti

portart charges were made also in Errest R. Graham Hall of History at the figure if the formula in this had were remain sed, and to them, were a lost a me of the outstanding specimens obtained by the two Captain Marsauli Field Paleontological Experimens to Aspectical and P. A. the second of which concluded its work in 1927 On the ways of this hall were installed the first ten of the projected series of twenty-eight large mural paintings representing the period story word and its life, which Mr. Ernest R. Gratain is guery the Museum. Work on these pointings was begun in 1926, as received in the Annual Report of the Director for that year In restaura wares of the protestors persons and the life typical of eart, the artist, Mr. Charles R. Knight of New York City, has theel his entire to be the facts established through scientific secured to pale of pasts. The cases and the paintings in Princip E. Grataes Hallace lystel to an extremely effective rew method

An inglother important new exhibits installed during 1928 are too for warry habitat groups of the Ovis poli or Marco Polo street 2 1 1 2 1 1 minute of Asiatic thes, compress of atomics obtained to Corel Theorete Romanit and Mr. Kernat Romanit while they mere leading the James Stepart. Recover is Assisted Expedition for Fire EM person in 1825-20, a group of five dissipline region, four "The specimers of this sure unimal facing been secured by the bieff Masser Chang Inda Nova Alysamus Especifics in 1976-27. and one having been presented by Captain Hamilt & White, a specie result the coupling of the purest upon also so the world, of takes to the Carta of Morena I all African Especition, 1921 is find that of gar or bears from Yasutut Bus, Austa, a group of the in the articline, the did is a surface to prove to papers. fre ruler of the Manual Person a. There were also many other interesting and in posture to the contribution of the build Deputtments I the Make part is for appear confered this Report

Several innovations which have proved very helpful to visitors were made during 1928. An effective and much needed directory service giving the numbers and locations of halls was inaugurated by placing framed printed placards near the entrances of the Museum, and at the head and foot of each stairway. To further serve the visitors, there were installed at either side of the main entrance other large printed and framed placards giving useful information concerning the Museum. Also, at the entrance to each exhibition hall framed and printed placards were placed, giving the number and designating the contents of the hall. On the walls in prominent places on the ground and first floors attractive frames were installed. which may be quickly and easily opened for the changing of timely announcements. These are used for the display of posters advertising the Museum's lecture courses for adults, the Raymond Fund entertainments for children, the monthly schedules of guide-lecture tours, bulletins calling attention to new exhibits, and other announcements.

The Museum had thirteen expeditions in the field during the year. Several of these did not begin operations until the last quarter, and they are expected to continue their work through all or most of 1929. Following is a brief summary of the year's expeditions:

The William V. Kelley-Roosevelts Expedition to Eastern Asia. to make zoological collections in remote parts of French Indo-China, and to explore certain unknown territory lying northward of Indo-China along the gorges of the Mekong River, set out in two contingents late in the year. Colonel Theodore Roosevelt and Mr. Kermit Roosevelt are the leaders, and Mr. William V. Kelley is sponsor. One contingent led by the Roosevelts themselves, left the United States November 10; the other, led by Mr. Harold J. Coolidge, Jr., of Boston, sailed December 22. After completing their separate objects and covering their separate territory, the two parties will unite in Indo-China for further work together. Among other members of the expedition are Mr. Suydam Cutting of New York; Dr. Josselyn Van Tyne, Assistant Curator of Birds of the Museum of Zoology of the University of Michigan; Dr. Ralph E. Wheeler of Cambridge, Massachusetts; Mr. Russell W. Hendee of Brooklyn. New York, and Mr. Herbert Stevens of London, England.

Mr. Cornelius Crane is sponsor and leader of the Crane Pacific Expedition which will circumnavigate the Pacific Ocean and collect land and marine zoological specimens. The voyage is being made on his yacht, the Illyria. Mr. Karl P. Schmidt, Assistant Curator of



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Regular, a large of the manufacturities. Assembly other provious of the repulsion are Dr. Glore W. Story, Carnier of the Manuscol. freings of Laboral Pharmers I compressed Dr. W. D. Mora of Highward Marchel Street, Mr. Clarke & Plant of Makin Advance Mr. Rednet St. Sturfed of States; and Street Walter A. Welter and Black Woulde of the Wineser's Disperson of Charles

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Human and animal skeletal material, important for the light they throw upon the life of the ancient city, have also been unearthed. The expedition will continue its operations in 1929. Captain Marshall Field is sponsor of the expedition for Field Museum, and Mr. Herbert Weld is its sponsor for Oxford. Professor Stephen Langdon of Oxford, is director of the expedition; Mr. L. S. Watelin is in charge of excavations; and Mr. Henry Field, Assistant Curator of Physical Anthropology at Field Museum, was one of the principal collectors during the season of 1928.

The Captain Marshall Field Anthropological Expedition to Europe did not return to the United States until 1928, although its work of collecting material bearing upon prehistoric man, for use in a proposed Hall of Prehistoric Man in the Museum, was completed in 1927. Assistant Curator Henry Field was leader. The two Captain Marshall Field North Arabian Desert Expeditions, the first of which ended late in 1927, and the second of which worked in the spring of 1928, were also under the leadership of Assistant Curator Field, and they made an extensive archeological survey of part of the North Arabian or Syrian Desert lying between the Damascus-Maan railroad and Bagdad. The expeditions covered some 6,000 miles, discovered several hundred open-air prehistoric sites, and obtained important specimens and data.

Two Captain Marshall Field Archaeological Expeditions to British Honduras under the leadership of Mr. J. Eric Thompson, Assistant Curator of Central and South American Archaeology at the Museum, conducted operations in 1928. The first, which had begun its work in the latter part of 1927, concluded operations in 1928. The second expedition departed in December to continue the researches into ancient Maya civilization begun by the first expedition, which discovered the sites of three buried cities. In addition to the archaeological work, ethnological studies are to be made, and Maya artifacts are to be collected.

The Museum obtained a collection of woods, including some rare ones, and herbaceous material from Panama, as the result of a joint expedition of Field Museum, Yale University, the New York Botanical Garden and the United Fruit Company. Captain Marshall Field was sponsor for the Museum. Mr. George Proctor Cooper of Los Angeles was the collector.

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Mrs. Anna Louise Raymond made a further contribution of \$2,000 for the work of the James Nelson and Anna Louise Raymond Public School and Children's Lecture Division, which was established in 1925 on an endowment of \$500,000 provided by her, and which has been the recipient of other generous contributions she has made.

For the purchase of the Herbert Devine Jade Collection the following contributions were made: from Mr. Martin A. Ryerson, \$1,000; from Miss Kate S. Buckingham, \$1,000; from Mrs. George T. Smith, \$1,000; from Mr. John Jay Abbott, \$100, and from Mr. Charles B. Goodsneed, \$100.

Mr. Henry J. Patten donated \$1,000 to be used in financing archaeological work.

Mr. William J. Chalmers continued his contributions as in past years by giving \$435 for the purchase of specimens of minerals for the William J. Chalmers Crystal Collection.

Mrs. Chauncey B. Borland gave \$150 for the purchase of a petrified turtle with ancient Chinese inscriptions.

The American Friends of China contributed \$475 as their annual gift for the development of the Chinese section of the anthropological collections.

Mr. Henry M. Wolf gave \$250 towards the purchase of a ceremonial Chinese robe from the Herbert J. Devine Collection.

The estate of the late George F. Porter paid the Museum a legacy of \$25,000, and the estate of the late Arthur B. Jones paid a legacy of \$2,000.

The South Park Commissioners turned over to the Museum \$212,637.59 derived from the tax levy authorized for this purpose by the State Legislature.

The great amount of material for the collections of the Museum received as gifts is a cause of satisfaction, because it indicates that the Museum has a large number of friends who take an active interest in its growth and development. Details of the acquisitions of the year are given in the departmental sections of this Report, and in the list of Accessions beginning on page 513. Among noteworthy gifts were two specimens of red deer, given by Lord Astor of London, England, a beautifully cut rose quartz bowl given by Mr. Richard T. Crane, Jr., and a collection of 3,240 specimens of minerals given by Mrs. Charles M. Higginson. The red deer are from Lord Astor's hunting preserves on the island of Jura off the coast of Scotland, and they have been made into an attractive exhibit



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where, including radio talks; and a great amount of public service has been rendered by the Staff in answering the many inquiries which come in on various subjects within the scope of the Museum.

An important publication issued by the Museum during 1928 is The Prehistory of Aviation by Dr. Berthold Laufer, Curator of Anthropology. Because of the prominent place aeronautics hold in public interest at present this publication proved extremely timely.

Important from the scientific standpoint was the discovery, during the year, of a new type of crocodile from New Guinea by Mr. Karl P. Schmidt, Assistant Curator of Reptiles, The species, described in a Museum publication issued recently, was discovered by Mr. Schmidt through work on some crocodile skulls which had been transferred to the Department of Zoology from the Department of Anthropology, which had received them with an ethnological collection.

The discovery also of a new genus of Abvssinian aquatic rodents by Dr. Wilfred H. Osgood, Curator of Zoology, who led the Field Museum-Chicago Daily News Abyssinian Expedition, is the subject of another publication issued during the year.

The various Divisions of the Museum-Raymond Division, Public Relations, Library, Printing, Photography, Roentgenology, Illustration and Memberships—as well as the Departments have all made notable progress during 1928. The details of their work appear elsewhere in this Report.

All educational activities of the Museum were continued in 1928, some of them, particularly those dealing with children, on a larger scale than theretofore. Every effort has been made to increase the use of the Museum and establish the most friendly relationships between the institution and the public, both adults and children. The usual spring and autumn courses of free illustrated lectures on science and travel by eminent explorers and scientists, were given in the James Simpson Theatre of the Museum, and the response on the part of the public has been most gratifying. Special series of lectures for Members were also given. All seats in the Theatre were lettered and numbered, and this has simplified the reserving of seats and aids greatly in ushering the holders of them.

As in past years traveling cases containing natural history and economic exhibits were circulated among the schools of Chicago by the N. W. Harris Public School Extension Department of the Museum. The number of cases used and the number of schools and other centers served has continued to increase as in past years.

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An obituary of Mr. Davies appears at the beginning of this Report (page 387).

Mr. Blair died on February 7, 1928. He had been a Trustee of the Museum since 1894. In 1909 he was elected Second Vice-President and held that office until his death. He was also a Patron, a Corporate Member and a Life Member of the Museum. The following tribute was paid to his memory by the Board of Trustees in a resolution adopted on May 21:

"The death of Mr. Watson F. Blair having been announced at the monthly meeting of the Board of Trustees of Field Museum of Natural History, held May 21, 1928, the following resolution was adopted as a testimonial of his unselfish labors in behalf of the institution:

"The Trustees of Field Museum of Natural History have learned with profound regret of the decease of their fellow Trustee, Watson F. Blair, February 7, 1928.

"The closing of the life of Mr. Blair removes from the Board one of its oldest members. He had served as a member of the Board of Trustees and of its Finance Committee since the incorporation of the Museum. In 1907 he accepted the Chairmanship of the Finance Committee and a membership on the Executive Committee, and in 1909 he was elected Second Vice-President of the Corporation. As a member of these Committees, and as an Officer of the Board, he performed his exacting duties with unfailing interest, ability and devotion until the time of his death, although they involved, especially in the earlier years, a considerable sacrifice of his time.

"He was in the fullest accord with the purposes of the Museum, and was always deeply concerned in its progress and welfare.

"The Trustees extend to the members of Mr. Blair's bereaved family their sincere sympathy; and in token thereof have unanimously adopted the foregoing testimonial and ordered it to be spread upon the records of the Board, and a copy of same to be properly attested and presented to the family of the late Watson F. Blair."

On July 16 the Board of Trustees elected the present incumbent, Stephen C. Simms, formerly Curator of the N. W. Harris Public School Extension Department, as Director, and also as a member of the Board of Trustees, to fill the vacancies caused by Mr. Davies' death. The new Director also became a Corporate Member, and was elected Secretary of the Museum, which office had likewise been held by Director Davies.

At the end of 1905, Mr. Harry & Hara - reagand from the Board of Thomas Service of the course of Sections in Now York Phys. Riv. recipied to precise all topes.

At the Daven ber meeting of the Plant of Imprices Mr. Fred W. Surport and Mr. Sumuel Insu., Ar., were a monuted to fill the varances on the Board caused by the death of Mr. Blair and the senguation of Mr. Bysam. Fruit artists on the reference was school for the January, 1939, meeting

Further tribute was pand to the money of the late Carl E. Alecey, to we re the Hall of African Manimals was desirated as "Carl H. Aleccy Memoral Hall," in 1927, through publication in DES by the Museum of a partie of photograpures of the principal ctang es in Field Museum of Abeles's work in both taxidermy and n a jilate

that was be charge in the scenits pail of the Marcon during 19th. Dr. Faul C. Frankley, by province years forming Control the United States Tollier, Manager at Washington D.C. , step = Stuff of Fig. 14 and a second of the third Rulph Letter, and Dr. McGovern, both of where he is been a second Caratesian the Deputhers of Account selection great the same of the Deepe T. Electronic and entiried with through the year as Assistant Curater of Egoptian Artime (197) Mr. Llevelyn Williams of the Department of Design the great testing the second to Wood Technology, The Arrand Str. J. Spr. Thompson, Security Association Company of Minimus and Muja At Time (1991, was charged to Assistant Carator of Central 21 1 Statt Arrest an Arrime by:

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Generous space has been given the activities of the Museum in the newspapers of Chicago and the press of the country as a whole. The Museum has been advertised in posters displayed by local transportation companies, by space given in theatre and opera programs, and by the distribution of Museum direction folders through railroads, hotels, civic associations, and other organizations. Details of the publicity and advertising are given elsewhere in this Report. Grateful acknowledgement is hereby extended to those in charge of the various enterprises which have thus given generous assistance in promoting public interest in this institution.

A large amount of reconstruction work and improvement in the building was undertaken and completed during 1928. Of first importance was the preparation of the new halls on the ground floor. the opening of which has already been referred to. Involved in this work was the moving of the north wall of Hall J, containing the Egyptian collections, seven feet to the north, and the building of a new type of case 199 feet long on the north and east walls. A similar case thirty feet long was constructed on the west end of the south wall. These cases extend fourteen feet to the ceiling, and the upper parts are offset to form an upper overhanging case immediately above the view glass of the lower section. Illumination is provided within the case but entirely outside the range of vision. Installed in the lower sections are mummies on inclined benches and other ancient Egyptan relics, with fabrics stretched on frames on the back walls and tomb sculptures set flush with those walls. Installed in the upper cases are a seventy-seven foot facsimile of the funerary papyrus of Ani, and, occupying 116 feet, plaster casts of sculptures enameled and glazed with umber to bring out the detail. These cases follow closely in principle, construction and illumination the habitat group cases in the Department of Zoology, but their adaptation to anthropological material and the installation methods employed here are, so far as can be learned, an innovation in museum work.

A case thirty-six feet long for African wood carvings was built on the west wall of Hall D. Tile partitions were built along the south side of Hall J and on the south and east sides of Hall B (one of the new ground floor halls unoccupied as yet). The doors to the north of Hall J leading to the stairways and passenger elevator were removed. and the openings enlarged to the full width of the corridors.

Various partitions were removed and doors and transoms blocked up to make available for exhibition space areas previously used for and south of Hall K an ecupied ground flog hall. of the James Simps in Theatre. About three hundred aif dust were from ead, as I the fresh air injets on the I were a theorem to the fan under the north a ed the route of travel for fresh air through to Hall J by pose than four but tred feet. The removal of as durt, together with the removal of all steam mans and other service papers, muste available the aforement and stomate a ne 11,000 square feet, for future ground flor exhibition It e term wall of the of f steam many from the couling also made the construction of the new types of exhibition cases in Hall be said, in fact, that every calculation half on the has been greatly benefited by the removal of the paper

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Halls II I I I I I I and the corn less leading to the allterra, were partiest. New states were provoted for Hall H. Two bule by frents and three stainer in the interesting centh century Egypt were repaid, 000 with a t boxe. matallef on the south wall of Hollands one cases in Hall K partied in pre for seems backgrounds for future exhibits of nunce numbul

Migh miscellatio is improvement and e at sure as parts of the Massam. Tell by provided so the evolt seed of Printley Point Hall the the installation of these Copies Station bands of towards; bright. Inminising parents were designed to windows of Hadis & 21 and 10. All worders compared to the control of the contro where the dropes long were cleaned. First come for falleted pressure of Arists internals, was built in William V. Kelley Hall (Hall 17). and has such come were built in Hall 10, decored to balduar groups of Assertant processale. Handward may labels were provided for there and other gratter mare. He recture walk more built between Halls IX and IT. Histologing book and traction were titted to many for the spain and this tilk proving

A war system of individual race lighting in Horses E. Contam-Hall, and a genera of basic lighting for the new more principle in that hall, were installed. New silverite glass was installed in the tops of cases.

Because of the inadequacy of space and the unsuitability of the former ground floor location of the X-ray studio, it was installed in more suitable quarters on the third floor. It now occupies a suite of three rooms—operating room insulated with lead sheeting, dark room, and office.

New sun curtains were installed in the photographic operating and printing rooms.

Much interior cleaning and painting was done, particularly in the Herbarium, and in Rooms 7, 40 and 108 on the third floor. Some 870 trays, with racks in steel cabinets, were constructed for bird and mammal storage, and many model cases and much other equipment necessary for the work of the various Departments were made.

On the roof of the building new skylight bars and ribbed wire glass were installed on the main skylight, except for nineteen rows of lights at the southeast corner which were placed in 1927. A large fan was installed at either end of the clerestory under the roof to circulate the air, as an added precaution to prevent condensation on the skylights. The terra cotta cornice and the court windows were tuck pointed. Four men worked full time cutting out loose mortar joints in the marble work and refilling them with cement mortar. All of the exterior window sills of the building received a coat of paint.

Western Union Time Service was installed during the year for the clocks at the north or main entrance, and at the entrance to the James Simpson Theatre. A new canopy was installed at the west door.

Under its agreement with the Shedd Aquarium the Museum began supplying heat to that building in December, when it was found that it would be needed for drying out purposes during construction.

LECTURES AND ENTERTAINMENTS

GENERAL LECTURES.—The Museum's forty-ninth and fiftieth courses of free lectures were given in the James Simpson Theatre on Saturday afternoons during the spring and autumn months. These were illustrated by motion pictures and stereopticon slides. Following are the programs of both courses:



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- November 17—"Treasure Hunting in Bolivia." Lieutenant-Colonel Charles Wellington Furlong, F.R.G.S., Boston.
- November 24—"Under the Northern Lights." Commander Donald B. MacMillan, leader of the Rawson— MacMillan Subarctic Expedition of Field Museum, 1927-1928.
- December 1—"Civilization of the Mayas—Past and Present."

 Mr. J. Eric Thompson, Assistant Curator of Central and South
 American Archaeology, Field Museum; leader of the Captain
 Marshall Field First Archaeological Expedition to British
 Honduras, 1928.
- December 8—"The Turkestan."

 Mr. George K. Cherrie, member of the James SimpsonRoosevelt-Field Museum Expedition to Central Asia, 1925-1926.

The total attendance at these nineteen lectures was 25,065. In addition to the regular spring and autumn courses, the follow-

ing special lectures were given:

January 14—"Birds and Animals of Alaska." Mr. William K. Finley, Director of Wild Life Conservation, State of Oregon.

January 15-January 14 lecture repeated.

January 22—"The Way of the Sperm Whaler."

Dr. Robert Cushman Murphy, American Museum of Natural
History, New York.

January 28—"Explorations in Plant Life."
Mr. Arthur C. Pillsbury, Berkeley, California.

January 29—"The Malay Peninsula." Mr. Carveth Wells, F. R. G. S.

February 11—"The Wonderland of Big Game."

Major A. Radcliffe Dugmore, F. R. G. S., F. R. P. S., London.

February 12—February 11 lecture repeated.

February 26—"By Aeroplane to Pigmy Land."

Professor Matthew W. Stirling, leader of the Stirling New
Guinea Expedition of the Smithsonian Institution.

October 21—"On the Roof of the World."

Captain John B. Noel, London, official photographer of the
1924 Mount Everest Expedition.

October 28—"Jungle Gods."

Captain Carl von Hoffman, F. R. G. S., New York.

November 4—"Excavations at Kish, Mesopotamia."
(Work of Field Museum-Oxford University Joint Expedition, season of 1927-1928.)
Mr. Henry Field, Assistant Curator of Physical Anthropology, Field Museum.

November 18—"Ptolemy's Mountains of the Moon." Dr. James P. Chapin, American Museum of Natural History, New York.

- 55 Under pre Nurchere Lights Commander From 100 Ms Mouro seater of the Rower Ms Mouro out of Earth of Earth Moseow, 1867-1865.
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 - The total after interest these special lectures was 17,000.

A special meter protuce program, "Abelian Adventures," given on I seember 15, was attended by 2001.

Coverage A series of chamber mass connects was given by Gort a String Quarter in the James Simpson Theatre, on the Sunday afternoons: February 5 and 15, March 11 and hed April 8 and 15.

On Sanaha, May 13, Mrs. Enradedh Sprague Coolidge spans red concert given by the Reas Strong Quartet of Vision in the James Treatre. The tetal attendance at the seven concerts was

EDUCATIONAL MEETINGS

The use of the Lecture Hall was extended to eleven educational and give groups. These conferences were attended by a total of the persons.

HADIO TALKS

Thurses the year, four rains talks were given by a member of Elegan at Three of these were over WGN, the Trains state of, and completed the series of ten beyond in 1927. One on "Owns Life" was broad and WMAQ. Charge Pools News statem.

LIGHTERE TOURS FOR ADULTS

As in great as years, the services of Misseum proble between fered sufficient course to clube, outside the and other erganand to Misseum vacations in present. For the public 112 Extracted the forces over a problem, the descripted in other a fee also never lay that the costs done for distrition without Hardiness of a law never rest at the Legacing of each month to libraries, social settlements, retail stores, and other centers of distribution

There were seventy-five groups from clubs, conventions and colleges, and fifty-two other special parties, totalling 2,362 persons, who received guide-lecture service.

General public groups numbered 399, with 3,846 in attendance. The total number of adult tours was 526, with an attendance of 6,208.

THE JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURES

Entertainments for Children.—The James Nelson and Anna Louise Raymond Public School and Children's Lecture Fund made possible the continuation of lecture work among children, both in the Museum and outside in schools and camps.

Series of entertainments were offered as usual in the spring and autumn, and in addition summer and winter series were added this year. By arrangement with the South Park Commissioners, special children's tours and motion picture programs were conducted during eight weeks of the summer. The groups brought from the various parks and playgrounds of the South Parks system for this course of tours and motion pictures totalled 2,202 children.

In addition to the special summer series arranged under the auspices of the South Park Commissioners, Field Museum carried on during the same season a similar series under the provisions of the Raymond Fund. These programs were given special publicity in the local press, and invitations to send groups were extended to the various clubs maintained for children by Chicago newspapers, including the "Topsy Turvy Times" of the Daily News, "Junior Journal" of the Journal, "Boys and Girls Post" of the Evening Post, and the Sally Joy Brown groups of the Tribune. Ten such groups were given guide service, with an attendance of 447, and seven special motion picture programs, attended by 2,150 children, including both the newspaper groups and other children, were presented. The "Chronicles of America" series of motion pictures, a gift to the Museum from Mr. Chauncey Keep, were used for both series of summer programs.

The programs of the entire year were as follows:

SPRING COURSE

February 11-"Abraham Lincoln."

February 18-"George Washington."

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"Butterflies and Moths." "Jungle Round-up. "Children of the Sun." 20—"The Sahara."
"Ants." October "Bees and Spiders."
"The Lion Hunt." "Perfume and Nicotine." October 27-"Switzerland." "Seaside Friends and Their Country Cousins." "A Day at the River." "Where Snowtime is Joytime." "Mountain Climbing in Glacier National Park." November 3-"China." "Down at Our Pond." "In Birdland." "Monarchs of the Plains." "Our Four-footed Pals." November 10-"Argentina." "Pirates of the Sea." "Pets." "The Story of Leather." November 17-"Peoples of the Mediterranean." "Furry Creatures."
"Friends to Man."

"Secrets of the Sea."
"The Parasol Ant."

November 24—"From England to South America."
"Preparing for a Garden."
"Palace of Honey."
"Golden Fleeces."

December 1—"The Rhine Valley."
"Growing Things."
"Fruit and Flowers."
"Bird Sanctuary."
"Monarch of the Glen."

WINTER PROGRAMS

January 28—"Secrets of the Flowers." (Mr. Arthur C. Pillsbury, Berkeley, California—lecturer.)

February 22—"George Washington."

December 15—"Alaskan Adventures."

December 22—"Bre'r Rabbit and His Pals."

"The Little Indian Weaver."

"The Wee Scotch Piper."

"The Little Swiss Wood Carver."

"The Little Dutch Tulip Girl."

December 29—Entertainment by Chief Little Moose, a Chippewa Indian.

SPECIAL.

November 12-Americanization Program.

Field Museum cooperated further with the South Park Commissioners by loaning certain films for showing in programs held at the various parks and playgrounds of the South Parks system.



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Manager of the Control of Discourse of Street, Square, or

"Birds of the Chicago Area."

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"Food Fish of the World."

"Silk and Wool."
"Flax and Cotton."

"Coal and Iron."
"Activities of Field Museum."

"North American Indians."

"Glimpses of Chinese Life."
"What We Owe to South America."

"Life of the Ancient Egyptians."

"Life of the Native Philippines."

Totals.—If the number of children receiving instruction by means of entertainments, tours and lectures be added to the number of adults receiving similar instruction, the total reached by these Museum educational efforts in 1928 consists of 1,566 groups, numbering 307,161 individuals.

ACCESSIONS.—The Raymond Division acquired during the year, through the Division of Photography, 432 lantern slides for use in its public school extension lectures. Thirteen other slides were obtained by purchase, making the total number added to the collection 445. This brings the total number of lantern slides now available for school lectures to approximately 5,000.

The Chicago Chapter of the Wildflower Preservation Society of America kindly loaned the Museum a number of its lantern slides on wildflowers of the Chicago area, for reproduction, and plans for a lecture on this subject, to be added to the list of school extension lectures, were thus facilitated.

NATURE STUDY COURSE

Preliminary steps were inaugurated during the year for a course in nature study to be given during the spring of 1929.

The course, as planned, will cover the topics most needed by those directing study of nature subjects in camps, school clubs, community organizations, et cetera. These will include studies of the animal, mineral and plant groups of the Chicago area, which will be discussed in the small Lecture Hall and followed by tours of correlated exhibits. The tours will be conducted by the guidelecturers of the Museum.

Indications are that the course will meet the needs of many organizations, and it is hoped to make it a permanent part of the educational work of the Museum.

In the busine series of Facts Monacon Publications, sight ware hand finding the post (rest. 6) of which were transpose, one publishpalispeal, and see the Lorsal Royal of the Director. To addition to these one burdler test added to the proper hade been, but to the boundaries of purchase to the second of plants of the was intent 1.7 wing is a detailed list of these publications:

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- News to the A. VII. No. 2. Annual Report of the Potential for the Year 1017. January, 1918. 102 pg., 21 photographics. Fifthers 12. 145
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- Course, a better Vol. XII. No. 27. Notes on Fouth American Cu-tomes. By Rad P Surveyof. November 21, 1928. 30 pp. 6 photo-procures. Little, Late.
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To protect the Museum in the future from unauthorized use of material in some of its more popular leaflets and other publications, such as has occurred several times, it was decided to copyright all leaflets, and certain other publications. Copyrights were obtained during 1928 for "The Giraffe in History and Art," and also for the series of paintings on paleontological subjects presented by Mr. Ernest R. Graham, and photographs of these paintings.

LIBRARY

During the year there were added 2,910 books and pamphlets to the Library. The total number now on the shelves is approximately 95,000.

The Library had the good fortune to obtain several rare items that have been desired for some years. Noteworthy among these are:

Martius, Flora Brasiliensis, fifteen volumes in forty, 1840-1906.

Karsten, Florae Columbianae, 1858-1861.

Gesner, Historiae Animalium, Liber iii qui est de auium natura, 1555.

Aiton, Hortus Kewensis, 1789.

Flacourt, Histoire de la Grand Isle Madagascar, 1661.

Brasseur de Bourbourg, Etudes sur le Systéme Graphique et la Langue des Mayas, 1869-1870.

Azara, Reise nach Sud Amerika, 1781-1801.

Rengger, Reise nach Paraguay, 1818-1826.

Rochon, Voyage to Madagascar and the East Indies, 1893.

Levaillant, Histoire Naturelle des Promerops... Oiseaux de Paradis, 1807. Spix, Animalia nova sive Species Novae Lacertarum quas in Itinere per Brasil-

iam Annis MDCCCVII-MDCCCXX, 1825.

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The generous distribution of the Museum's publications has continued, and the Library has received in exchange valuable material from other museums, research organizations, scientific societies, and individuals, both at home and abroad. Among these were sets of publications from Naturforschende Gesellschaft, Basel, Switzerland; The Mining and Geological Institute of India, Calcutta; the Universidad Nacional de Tucuman, Argentina; Station Océanographique, Salammbo, Tunis, Africa; Departement van Landbouw, Nijverheid en Handel, Dutch Guiana; Dansk Geologisk Forening, Copenhagen, Denmark; Sociedad de Geografia Historia.

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EXPERITIONS AND BENEARCH

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The Course Manual Field Fire Arrival and Expedition to Better Breedown under the behinding of disterned Carolor L. Die Thompson, and in the free from James in James, Mr. Therepart arrived at Deline, the squared on Japanes 9, and after a fee days, suring which he pursuant stress and obtained the conmany commands for expensions, or let'rise there is no the Copy. Majort, which is a smallest and having limit the time of the Major Old Empire. There excavations were carried on until the middle of March. On the discovery of two new sites a few miles outside of this concession, Mr. Thompson returned to Belize and obtained a concession to excavate them.

One of these cities, to which Mr. Thompson gave the name of Tzimin Cax, is of great archaeological importance, for in it were found burials of the earliest known Maya period (roughly 200 B.C.-A.D. 200). Information on this early culture is very meagre, and material is scarce. As a result of operations at this site three important burials were discovered. Two of these graves yielded pottery of a type hitherto found only in the highlands of Guatemala. It had long been believed that an early culture flourished in this mountain area, but no direct connection with any other culture known had hitherto been found. These burials supply the evidence which had been missing of a stream of highland influence filtering into the Peten regions in early Maya times. Intensive excavation will probably throw more light on this early and little known phase of Maya history.

The second site, Hatzcap Ceel, and a third site, Cahal Pichic, discovered a month afterwards, represent the close of the Old Empire, and date some eight hundred years later. This was a period of transition, of which little is known. These sites of about A.D. 600 yielded a finely carved altar stone and practically all the jade that the expedition found. The altar stone is, so far as known, the only carved Maya monument with a legible date in the United States

A third phase of culture, rich in pottery and shell work, is also represented at Tzimin Cax. This probably represents a period intermediate between the opening and close of the Old Empire.

Unfortunately, shortage of water forced the cessation of work after six weeks of excavation. The work throughout was hampered by the uncertainty of it. Members of the expedition were compelled to wait for occasional rains to make possible each few days of work. This uncertain condition also affected the labor supply. It was impossible to sign up the laborers, Maya Indians, for a month, because at no period during the six weeks did the water supply appear sufficient for more than a week ahead. These conditions were unusual, the previous winter having been exceptionally dry, causing the shortage.

After dispatching his collections from Belize, Mr. Thompson moved to the north of the colony, and began excavations among

Jew. 1907

some small runs at Louisville, a few rules from Coronal, from which place he visited an interesting of each for the Hoselin, Mexico. As the Masseum undertunately had no corona on to conscite on Mexican soil, he was made to conduct any operations in this territory.

During his archieological work Mr. Thompson collected

Work in the Maya field has been estimated as far largely to a search for freely puts. The results of such work do not add much to our knowledge. One of the objectives of the Captain Marshall is was to seek pettery that would shed light on the But indoubledly existed between different Maya Maya pattery known comes from a city been named Helmal, where, a number of years ago, a compact of the second of the s

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Associate Country William Devices Strong incompanied the Research MacMillan States on Experience of 1987-50 on authorspingist. Starting June 25, 1927, from Wiscasset, Maine, the expedition arrived in Hopedale, Labrador, July 18. Dr. Strong carried on archaeological investigations on near-by islands, finding several burial cairns, skeletons, and typical Eskimo grave gifts. Piloted by an Eskimo, he visited the aberrant stone ruins at Sculpin Island. north of Nain. From the type of construction, evidences of whalebone roof-beams, lack of fire-pits, and the known fact that typical Eskimo burials were located on near-by hills, the conclusion was reached that the stone walls represented an old Eskimo whaling camp. Later investigation in Frobisher Bay revealed indubitable Eskimo ruins of this type. On July 30, while landing stores at the station site, Anatalak Bay, the first Naskapi Indians were sighted.

A cruise around Frobisher Bay in southeastern Baffin Island occupied the time from August 7 to 28. In the western end of the hav at Bishop's Island and Kooiesse Inlet, stone ruins of a type identical with those on Sculpin Island, Labrador, were examined. Eskimo artifacts found in situ clinched their identity. On the Sylvia Grinnell River a base camp of Nugumiut Eskimo, living in primitive style, was encountered. Lack of able interpreters as well as time prevented the securing of collections, but sketches and photographs were made. The men and able-bodied women of this band were in the interior (vicinity of Amadjuak Lake), but their kayaks and umiaks on the Jordan River were seen.

Old stone, sod, and whale-bone iglus were encountered on Brewster Point, but time for digging was lacking. A representative collection of modern Eskimo camp debris (old lamps, harpoon-points, bone work) was secured from a temporarily abandoned camp of the Nugumiut. On Kodlunarn (White Man's) Island the ruins of Sir Martin Frobisher's camp were examined, and some fragmentary objects collected. Following the expedition's return to Labrador, the time between August 29 and September 28 was spent working on the house that was to shelter the party during the winter.

From September 29 to October 15 a trip was made south to Jack Lane's Bay and up Hunt's River in search of a band of Naskapi-Montagnais Indians. Dr. Strong was accompanied by a local boy, who, it turned out, had never been in the region before and did not know the whereabouts of the Indians. In the interior traveling was done by canoe. Storms, swift water, many portages, and an unknown country rendered the trip very difficult. There were no signs of the Indians where they had been reported to be, and though Dr. Strong and his companion pressed farther into the interior, still none were ment. On extracting Deep this trip Dr. Strong and told by Sr a more more for proved start. The courses proved building between the are product Explorer proventy often may discussed in the best of Auril, Execute Deep and a second of only other discinning great and buildpasting laws obstacles.

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According to the Indians, this happened because the deer smelled great heaps of bones left uncared for. The caribou, they say, told the caribou god of these bones, and he became very angry. He took all the caribou down into a distant mountain which the Indians call the Caribou House, the legend continues, and since then the Indians have been very hungry. Thus, they explain, they were forced to move to the coast where they could supplement their hunting trips with fishing, trade, and beggary. The Indians now are very careful to practise all the sacred rites pertaining to the caribou, thus hoping to make the caribou god relent. They are especially concerned about preventing the dogs from touching the head, horns, or long bones of the deer. They require that the sacred marrow used at the ceremonial feasts be eaten in the lodge, and the container cleaned at once. This is to prevent possible profanation of the deer by dogs.

The mythology of the Naskapi forms an interesting link between that recorded by Turner in Ungava and that by Speck in southern Labrador. The many references to southern animals, mere names to these people, and the contents of the myths which refer to such things as palisaded villages, suggest a rather recent northerly movement of the people. The fact that Indian place names, especially towards the coast, seem to be comparatively scarce, while they use Eskimoan or white men's names for rivers and lakes, confirms this suggestion.

A mythical people, called the Katcimedgeezue, are greatly feared by the Naskapi. These people are said to come far into the lonely interior in magical tall-bowed canoes and to steal Naskapi children. Their whistling may be heard by the common people, the Naskapi say, but they are invisible except to the Naskapi conjurers who pretend they can see them and drive them away by the aid of their own powerful spirits. This would seem to be the northern version of the tales inspired by the fierce Iroquois, who in early times drove the Naskapi to the north. Dr. Strong reports that the interior of Labrador is so utterly desolate and lonely that it is small wonder that the Indians believe it to be the abode of these and a host of other malevolent spirits.

The Naskapi Indians do not seem to regard certain areas as belonging exclusively to certain bands. Each has a huge region, that of the Barren Ground people including some thirty thousand square miles, totally unoccupied save by about one hundred Indians. Should one band be markedly successful in the hunt, or should careful he abundant near them, they are vasted by those less furturate. The bunds are loss expanded on a lightening, and are considering population. Mustures an expansion for the correct ray, but is assumed to the same as a particular section of the property of the property of the property of the correct resistant in an expension of the property of

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The time from May 19 to June 19 was spent at the station, because melting ice prevented travel. Studies and measurements of some twenty-five Indians were made, and some Indian material was collected.

From June 20 to July 4 an excursion was made in a canoe for about fifty miles over the difficult Hunt's River route to investigate a stone age Eskimo ruin reported by the Indians. Many ancient Eskimo stone implements were secured, and the ancient Sharp Hill quarry (head of Jack Lane's Bay) was thoroughy investigated.

During the period from July 5 to 22 stone age Eskimo sites at Windy Tickle and sites of the early Mission period (about 1770)

were excavated at Spirit Island and Hopedale.

From July 27 to August 10 archaeological investigations of islands east of Nain were continued, partly by motor-boat and partly by canoe. On these excursions the cooperation and assistance of Messrs. Frank Henderson and Novio Bertrand, two of Commander MacMillan's aids, were of great value. Excavations were made in early Mission period ruins at Nateutuk, Ivalik, and Nukasujuktok Islands. About twenty old Eskimo graves and gift cairns were studied, and their contents secured.

The cultural remains encountered during excavations on the northern Labrador coast indicate two main periods of Eskimo occupation of the region between Port Manvers and Hopedale.

The first is a stone age culture, found in small camp sites exposed by wind or water erosion, which are marked by well-chipped chalcedony, quartz, or flint points and blades, ground-stone pot fragments, adze-blades, a gouge, and stone ulus. There is a notable absence of bone or ivory work. Some small fragments of fossilized bone were found at these sites, but no worked bone implements. The majority of these sites are on the coast, but one old site which is identical was found some fifty miles up Hunt's River.

An old native quarry of colorless chalcedony, its lower exposures covered by two feet of moss and soil, was discovered at the head of Jack Lane's Bay. Hammer-stones and characteristic stone implements were found in the bare wind-eroded exposures near-by. This quarry marked the only occurrence of chalcedony known in the region, and the site shows evidence of extensive work. The character of the stone ulus, adze-blades, and of one steatite charm indicates that the makers were Eskimoan. The presence of the gouge and the type of chipped stone points indicate a relationship with the



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Productly at the other and beautiful to Mandata Specialist, Specia sidence evaluate of early contact with white mey. A approximaappropriate of the Endowed artifacts from bond inter since any per la como Timo Latino de como de la como d Har have been been working relieve of later laters.

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the Royal College of Surgeons, and Professor Elliott Smith of University College, London, in connection with studies of Neanderthal man. Mr. Frederick Blaschke, of Cold Spring on Hudson, New York, sculptor who accompanied the expedition, made a model of the Forbes Quarry Gibraltar skull of a Neanderthal woman, under the supervision of Sir Arthur, with the original skull The Chapelle-aux-Saints cranium was taken as a model for Neanderthal man and a similar work of reproduction accomplished. The sculptor also made a one-fifth scale model of a Neanderthal man, with Sir Arthur and Professor Smith giving many valuable suggestions. Plaster casts of several Neanderthal skeletal remains were purchased to aid the sculptor. Books and other sources of information were placed at his disposal. These models will be of use in carrying out plans for the proposed hall.

The members of the expedition next proceeded to Paris, where they were joined by Abbé Henri Breuil, professor at the Institut de Paléontologie Humaine, who had agreed to act as scientific adviser. Mr. Pierre Gatier of Paris was engaged as artist, and Mr. Henri Barrevre as photographer. Headquarters were established at Les Evzies in the Dordogne region of southwestern France. Mr. D. Peyrony, Director of the Les Eyzies Museum, kindly granted the expedition permission to collect data and to make photographs, motion pictures and color sketches in and about the famous rock-shelter of Cap Blanc, whence came the skeleton of a Magdalenian young man which the Museum obtained in 1927the only complete adult paleolithic skeleton in the United States. Samples of the earth covering the rock-shelter were secured, and pieces from the wall were obtained for the use of Field Museum.

Cap Blanc was visited, and Abbé Breuil and Mr. Field spent much time examining collections of prehistoric objects excavated by farmers living near-by. Upon the recommendation of the Abbé. Mr. Field purchased the Castanet collection, which includes a remarkable Aurignacian necklace from La Souquette. This necklace is composed of beads made from mammoth ivory, shells, perforated teeth, and small pebbles, and is approximately 35,000 years old. All noted prehistoric caves in the region were visited to aid in selection of material for future exhibition, and several small collections were purchased. The art staff then proceeded to Mas d'Azil and made photographs, motion pictures, sketches and two models.

At the invitation of Professor Hugo Obermaier of the University of Madrid the expedition visited the renowned cave of Altamira

mar becoming in currient Space. Several artists unlargers were professed in this neighborhood. Done in the Anties period were softward. Abbe trough and Mr. Faris then makes the save of Campe and palmed the base obstacles what will be if no in one of the middle placed for the proposal tell.

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Palastic publicane was revised the expedition to Miss Direction Carriel, of Oalted Cornectly, who discovered a Treaslattical shift's sales on all the paintithin may raised Davil's Town, of the Moneterian period, at Gibrahan, where Assistant Curator Faril had praile some studies in 1976.

Dr. Heart Marcin of Paris, what dissevered in 1921 is from of annuals deficinely belonging to the finishman period. Simily granted to the expedition the privilege of anguing the only self of more made from the first maid. No other sel has been persolved to beyon France. The assessment are filtering, carried to print and all females. Included to an interesting areas to which a comwith lowest band, is closing a year.

The Table Movem Oxford Contracts John Expedition for Management, Research to Capture Marrison Field and Mr. Berbert Well, resolved its notify waster at Risk, evening from the beginming of December 1967 to April 1, 1969. The field discuss was again Mr. L. C. Watseller. He mus taxoned by Meson. House Publ. and Eric Schooler. The greens' opportune, of the work was in previously in the hards of Probasol Region Longitus of Orient

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of five meters over an area of about a hundred square meters. The center of this area revealed a building designated in the records as Monument Z, which contained practically no objects. Although it was located beneath the Arab remains, it was above the culture stratum attributed to the period of Sargon I.

The general plan for this season was to clear a limited area down to water level, and to make an effort to obtain objects of cultural importance belonging to the earliest inhabitants of Kish. It was also imperative to secure skeletal material that would contribute to solving the problem as to the physical characteristics of the early inhabitants of Mesopotamia. The work was carried on with a force of about two hundred workmen and basket-boys. A light railway system consisting of eight small trucks was employed for the removal of the earth of the mounds above the plain level. Below this, basketboys were used, and a space about ninety meters in length and thirty meters in width was excavated down to a depth of fifty feet below the original surface of the mound. At this point water was reached, and further digging was impossible.

Continuing below the magnificent temple of Nabonidus, erected toward the middle of the sixth century B.C., an almost sterile red stratum which covered the entire area at this particular depth was reached. Just above this red laver was found a female skeleton with a thin gold headband in place around the skull. There were numerous large pots with handles emblematic of the mother-goddess, so characteristic of cemetery "A," excavated by the expedition during its second season. From another grave, presumably that of a princess, were brought to light a beautiful lapis-lazuli and gold necklace, copper hairpins surmounted by figures of cow heads, and a variety of beads, silver earrings, bracelets and other jewelry. In the red stratum, which divides the upper and lower layers, were found two lapis-lazuli cylinder seals with clearly cut inscriptions, which Professor Langdon has been able to date at about 2950 B.C. As the work continued down toward water level, it was obvious that everything to be found below this red stratum was prior to 3000 B.C.

Human skeletons occurred in all the various levels, and Assistant Curator Field spent every day with two Arab workmen, especially trained for this kind of work, in the task of removing the earth from the bones, applying to them a thin coat of wax, and packing them in wooden boxes preparatory for shipment to Chicago. Accurate records were kept of the exact level in which each skeleton was

together muti the objects dust acted with the election. and eletries of the positives of the objects were also I represents of more than two has tred sheletons were sent Character The country of the boxes as water level was approached deniedly warse, at it is several cases it was impossible to

The perend culture erruntered in the lower levels differs was a from that of the lavers overlying the red similars. There a squartity of pettery, musty pieces representing new forms. was a definite transition to a newer and righer stone culture, and tracked of two fire trace banks, found to executive gift (for accretion, was referred. Their true sond frequency of point with was Based halow the tell stratus. There was a received advance of prelimitations, although time were incomes backs of one factor, particularly a skirt or girely of long boals touch from the contra behalf of a large that become to have four brought from the Poycor Kind. Part of the extented which of the shell now out off, and the wheth land was seed on a principle from of loop. A market of magner objects more countried, contacting a long position the stocks of a pile copper bug with grown? below Lounteen, recogniting from the series of the back a vertical real services long in live parameter

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According to his report, the wheels consist of wooden planks kept in place by a rim, and strengthened on both the outside and the inside by wooden cross-pieces measuring two and three-eighths inches in diameter. The rim is covered with copper nails at close intervals. The axles supported a platform which had a copper border at the anterior end, and wooden semicircular sideboards.

Close to the four-wheeled chariot was found a copper saw, probably used for cutting the wood of the wheels. There were also several human skeletons lying in this vicinity, and one complete skeleton in a very good state of preservation was recumbent on the slope some ten feet away from the rear end of the chariot.

At the close of the season the work of cataloguing and packing was completed after the division of the objects with the Irak Museum. represented by Mr. R. S. Cooke, Honorary Director of Antiquities for Irak.

During the season a comprehensive series of photographs was taken at Kish. An interesting motion picture of the work in progress was also made. Mr. Schroeder and Mr. Field also took numerous photographs illustrating the season's activities and the general progress of the excavations.

The most remarkable discovery of the season, according to Professor Langdon, is a new prehistoric culture, not Sumerian, but allied to Sumerian, equally old and entirely distinct. This new culture represents a people characterized physically by a side hairlock worn over the right ear and falling from the crown of the otherwise completely tonsured head. They produced finely painted pottery both in one color and in yellow, black, and red. The pottery was wheel-made and decorated almost entirely with geometrical designs, although a few naturalistic motives of animals occur, connecting this culture directly with early Elam.

In 1926, Jemdet Nasr, which lies eighteen miles northeast of Kish, vielded many fragments of painted pottery and some complete painted jars and tablets of an archaic type. Mr. Watelin decided to continue excavations there in March, 1928, with a force of two hundred workmen accompanied by Messrs. Field and Schroeder. The workmen, after removing an enormous quantity of earth, found hundreds of fragments of painted pottery and some complete jars, as well as some pictographic tablets in linear script, seals of various



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consisted of Messrs. Henry Field, Eric Schroeder, S. Y. Showket, and G. Vania. For part of the way the expedition accompanied an armored car patrol, and was thus able to visit many important sites within an area containing a hostile population. Thousands of flint implements were collected from more than three hundred new sites. A large number of photographs was taken, and all the Roman and Arabic ruins were recorded. One of the most interesting places visited is Qasr Burga which lies on the eastern border of the great Harrat er-Rajil and was the easternmost outpost of the Roman Empire. The ruins were mapped in detail, and more than two hundred photographs were taken. Detailed information on numerous historical ruins was obtained. Photographs of the Bedouins and their tribal life were made whenever possible.

In addition to the objects collected, and the data gathered bearing upon ruined buildings, information of great value concerning hundreds of miles of desert land was obtained. Notes on the topographical nature of the country traversed, the additional information and corrections which can be placed upon the new maps, and the deduction that this was once a well-watered and fertile area inhabited by man, all resulting from this expedition, add materially to the existing knowledge of the North Arabian Desert.

A preliminary archaeological survey was made in northeastern Irak between Kirkuk and Mosul in an attempt to link the chain of prehistoric surface sites in the desert with northeastern Irak. Caves were reported from near Rowanduz and Akkra, and it seems plausible to suggest that some of the prehistoric peoples passed through these gorges or to the south at Suleimania, where search is now being made for traces of paleolithic man.

Mr. Field returned to Chicago on October 3.

A great amount of research has been accomplished during the year by present and past members of the Staff of the Department of Anthropology. The results of many of these researches have already been received in manuscript, and others have reached an advanced stage so that the preparation of manuscript for publication may be expected in the not distant future.

Professor A. L. Kroeber, Research Associate in American Archaeology, has been engaged for two years in a technical investigation of ancient Peruvian fabrics collected by him during two expeditions to Peru on behalf of the Museum. He is aided in this work by a textile expert, Miss Lila O'Neale, of the University of California. Each fabric is analyzed as to technique, color scheme, pattern,

seaton, finalten, and tassels. There are offen from three to as employed in one fabric. Some of these appear to be new to accende. When the observations have been completed, they will be classified according to area and period. It is boyed that in this way not only a better ries of the runge and carrier of Peruvian feature act will be obtained, but him some clean of the act which is nearly to later periods. A feature of the act which is publicate in during 1975.

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A leaflet dealing with the use of tobacco in Africa has been prepared along lines which coordinate with a series of five leaflets on tobacco published some years ago. A chapter on the introduction of tobacco into Africa has been written by Curator Laufer. Assistant Curator W. D. Hambly deals with African customs relating to tobacco, while the use of tobacco in Madagascar is presented by Dr. Ralph Linton. This subject presents many points of interest which center around the growing and manufacture of tobacco, the making of pipes and snuff boxes, and many quaint customs connected with smoking.

The manuscript of a study of the painted pottery and other objects found at Jemdet Nasr has been received from Mr. Ernest Mackay, and will shortly be published in the Memoir Series of the Museum.

Assistant Curator J. Eric Thompson prepared a manuscript on the ethnology of the present-day Mayas of British Honduras.

The results of the Captain Marshall Field Expedition to Colombia of 1922-23 were submitted for publication by its leader, Dr. Alden Mason, now of the Museum of the University of Pennsylvania.

Dr. William M. McGovern, formerly an assistant curator in the Department, and now of the faculty of Northwestern University, completed a manuscript on the ethnology of the Gran Chaco region.

The Curator, Dr. Berthold Laufer, made a study of the history of the game of polo in Asia for which he has collected an abundance of illustrative and documentary material from Persia, China, and India, and continued his researches into the domestications of animals, three of which are now almost ready—the cock, the cormorant, and the cat. The last-named investigation will definitely settle the problem of the first appearance of domesticated cats in Asia and the varieties of cats produced in the Far East. Corresponding with his "Prehistory of Aviation" and "Prehistory of Television," Dr. Laufer is planning to write five more prehistories—those of telegraphy, electricity, paleontology, meteorology, and the refrigerator.

Professor F. E. Wood, of Chicago, availed himself of the opportunities offered by the Department's study room, and examined all Peruvian skulls in the Museum's collection, measuring 362 of these and making notes on teratological and pathological conditions found.

BOTANY.—The major exploration work of the Department of Botany during the past year was the Captain Marshall Field Expedities to Panama, conducted by Mr. G. Printer Cooper, held assistant of Yale University School of Forestry, who has had wide experience me especial cary work is Central America. For this especialism the Moseum obtained the consensus of the New York Bidameal Garden, as I of the Somes of Forestry of York University, through the interest of Profess Sanuel J. Revist, Associate in Wood Tests by in Field Museum. The work of the especials was familiated by substitution association for terred by the United Fruit Company of Posts to

Mr. Coper worsel in Parama from December, 1927, until the first of April, 1928. Most of his time was devoted to exploration a tra Province of Poens del Toro, on the Atlantic coast, where he - 1 ed from 272 trees series of specimens illustrating wood and other betained characteristics. Many of these were previously and course the practical of wants. He April he collected there come wood spectrum around Persol, in the Department of the Ellis.

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Around I action I says West, Mr. Corpor strained many sever different posts of tests and shorte, and in Horse del York LVI or amine place. The same time imagest been about two thousand inflation spaceura with large best visited with the other o-The section of this coderating were seen antimotory, the Museum arquiring a valuable nation of words 200 a long-routher of between spaceura from a region formular about without representation in the collection

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The herbarium specimens have been studied and determined by Associate Curator Paul C. Standley, who has found them to be of exceptional interest. They include representatives of two new genera, about sixty new species of trees, and one family of plants—the Quiinaceae—unknown heretofore north of South America, besides several published species of trees which had not been collected before in Central America. No other recent collection of plants from middle America has proved so rich in new or rare species.

*Mr. Llewelyn Williams, Assistant in Wood Technology, proceeded early in the year to Yale University where every facility was afforded by the School of Forestry to select specimens from the duplicate collection of tropical woods in that institution. At the same time he made studies of certain tropical woods, and the results of the investigations were published under the title "Studies of Some Tropical American Woods" in the September issue of

The Department shared in one Museum expedition, the Rawson-MacMillan Subarctic Expedition. Messrs. C. S. Sewall and A. C. Weed assembled 678 specimens of plants, mostly from Labrador. The collection, added to those obtained by the same collectors in previous years, gives the Museum an excellent series from a region imperfectly known botanically.

"Tropical Woods," the publication issued quarterly by the Yale

University School of Forestry.

As an indication of the extensive use which is being made of the Herbarium for research purposes, there may be cited twentynine papers published during the year. Some of these were prepared by the Staff of the Department of Botany, some describe the results of Museum expeditions, and others are based, at least in part, upon material in the collections of the Department.

Professor Samuel J. Record, Associate in Wood Technology, published in Tropical Woods a paper of twenty-seven pages listing the trees obtained in the region of Bocas del Toro by the Captain Marshall Field Expedition to Panama, 1928, and also a list of the trees collected by the same Expedition near Permé, Panama. The vernacular names are given for most of the trees reported, and the two papers form an important contribution to the knowledge of the forests of Central America.

Associate Curator Paul C. Standley published in *Tropical Woods* five short papers describing new species of Central American trees represented in collections received for determination by Field Museum. He published also in *Science* a brief article descriptive

of Lauretilla Experiment Station, Honduras in the vicinity of which be made a large or leston of plants during the winter of 1927-25.

Assessed Course J. Process Markello published as Proposal Woods and account of the man's commonted littles on making the first In the same named Mr. Williams potented a dealer, exceed all the grants of groves appeared to time from Partie, Partiette, Problems as, and Yenenala.

Mr. G. Proster Cooper published in Proposal Woods two papers. describing the results of the Captain Marshall Field Expedition to Panama The first, entitled "Some Interesting Trees of Panama," page of accept important timber then aroung them the business Manifered tempor, a Too sink of which promity was placed on sellining in Study Fart Hall. The second paper to Mr. cooper is a disample of account of the female of motion Palency

In Proposal Words for Starrit, I., 1909, course the authoration of Mr. David A. Keile, there appeared up important account of "To-Person: Collection of British Gumma Woods," covering forty pages at I have up a a collection made for Field Museum in 1923-24 by Mr. A C Permant. There are commerated sixty-eight species of movels, be'erging to sarty genera and thirty-two families.

Ma. H. C. Benks published in Khomes into papers doubling being and rober places, based upon implement to the Museum Horbarrier. To E. E. Starff, in protocopiles of the explice of the press these patricted in the firmulal George a paper incribing several per species and capable whose types are in the first-prior of

Among other waters who have published papers based portly upon from Museum reserving may be more and Dr. R. P. Blake, alo described ten ben whose types are in the Morte - Mirch W. Cristan and described a new rose in a paper - mail It dies, Mr. 1 some P. Lilling who published green over the price place collected By the Contact Marshall Final Expedition in Few Mr. C. E. Kolooki, at we to regraphs of Acatiflureae Lat Museum specimens, Dr. Francis W. Pr. - White Communication and and an in-A es la North America" estes fin By from the central states; and Dr. R. L. Robinson, who and as types of certain new South American species of Mills appearants in the Herbarian of Le'd Misseum.

tetermination of a persived during the ruct of the attention of the Herbarium. The most important collection studied was that made in Panama by Mr. G. Proctor Cooper of Yale, which required several weeks because of the large number of new or rare species which it contains. A paper describing the new species was prepared and is now in process of publication.

During the year many lots of plants were received from correspondents for determination, and these have been named and in most cases added to the Herbarium. A large part of the most valuable and desirable material received during the period under review was acquired in this manner. Material requiring determination was received from many portions of the United States, and from Mexico, British Honduras, Guatemala, Salvador, Honduras, Nicaragua, Costa Rica, Panama, Colombia, Ecuador, Peru, British Guiana, and Venezuela. Among these collections there were many interesting and unknown plants of which descriptions have been prepared for publication.

In order to make possible the accurate determination of the Museum's collection of tropical American plants of the family Rubiaceae, a group which yields coffee, quinine, ipecac, and other useful products, there were borrowed from the larger herbaria of the United States, through the courtesy of their curators, several hundred specimens of the family. These are being studied by Associate Curator Paul C. Standley who is preparing an enumeration of the Rubiaceae of Colombia, Ecuador, Peru and Bolivia.

A flora of the Yucatan Peninsula, which it is expected will be ready for publication during the coming year, has been brought nearly to completion by Associate Curator Standley.

Assistant Curator J. Francis Macbride has been able to devote a satisfactory amount of time to study of the collections of the Captain Marshall Field Expeditions to the Peruvian Andes. These collections, supplemented by those of Dr. A. Weberbauer, Mr. Carlos Schunke, and other collectors, are serving as the basis of a comprehensive list of the flora of Peru, now in course of preparation. During the year manuscript has been prepared for several of the larger families.

In the determination of Illinois plants Mr. H. C. Benke, of Chicago, contributed generously of his time, naming specimens sent by correspondents to the Museum for determination, and revising the identifications of specimens already in the Herbarium. Dr. Earl E. Sherff, of Chicago, has continued in the Herbarium his studies of the Compositae, particularly in the genus Bidens, and



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From the Sentence that some best led in 1939, in contarge, APPE specimen of plants. The manufacture of large part of displacing from the S. D. Displace Turbust offendings had believed along a substantial business of purcosess from the Displace Displace.

It is expected, pleasing to time the territoring on that is been said, past of the Sorbeston. The least to be belief decided as prove that the experience of the Majorana's consistent and decide nized elsewhere, and the same fact is indicated by the large number of correspondents who forward material for determination. Frequent requests are received, also, for the names of local plants brought to the Herbarium by visitors from the Chicago district. By mail there are received numerous requests for information covering many branches of botanical knowledge, requiring the expenditure of much time to furnish the necessary data. The Department of Botany has assisted in the work of other Departments of the Museum by supplying information upon botanical matters.

The Herbarium has enjoyed visits during the past year from a large number of botanists of the United States and foreign countries who came to study the collections or to make the acquaintance of the Herbarium and its Staff.

Dr. J. S. Enander of Lillhardal, Sweden, one of the leading antorities of the world upon the willows, spent two weeks in the Herbarium, studying the Salix collections and annotating them. Dr. Enander was commissioned by the Swedish government to make a trip around the world for the purpose of studying willows and obtaining living material of them for introduction into Sweden, where they are used for basket making. With the assistance of the Staff of the Department and friends of the Museum he obtained a collection of cuttings of the willows of the Chicago region for shipment to Sweden. The death of this noted willow specialist, within a few weeks of his visit to the Museum, is noted with regret.

Mr. Charles C. Deam, State Forester of Indiana, Bluffton, Indiana, visited the Herbarium twice in order to obtain data for use in the preparation of an account of the grasses of his state. Dr. Cristobal Hicken, of Buenos Aires, one of the leading botanists of Argentina, visited the Museum in June, to familiarize himself with the Herbarium and the plant geography of the Lake Michigan dunes. Dr. C. R. Ball, of the United States Department of Agriculture, studied the collection of American willows, upon which he is an authority. Professor Edgar Anderson, of the Missouri Botanical Garden, St. Louis, studied the Iris collection, and Mr. R. E. Woodson, of the same institution, studied the American plants of the family Apocynaceae. Mr. H. Teuscher, of the Morton Arboretum, Lisle, Illinois, visited the Herbarium in order to identify specimens of woody plants. Mrs. Eileen W. Erlanson, of the University of Michigan, studied the collections of American roses.

Mr. G. S. Williamsk, of the University of Washington, Stationand angaged for the greater part of the termine in the study of the species of Agencia, a great of Comparison, and for resided the Manuscriptonian of Posterior in the proof. The Mission becomes Manuscriptonian is being combar of specimens for one in the propagation of the company.

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The locality at Manuels gave the best results, more than four hundred specimens of the fossils of Upper and Middle Cambrian age being obtained there. In all, about two thousand specimens were collected during the season. These belonged to the classes Lamellibranchiata, Annelida, Gastropoda and Trilobita. A large proportion are trilobites of Middle and Upper Cambrian age, and because of their antiquity and rarity they are an important addition to the Cambrian collections of the Museum. Their importance is further increased by the fact that preliminary studies indicate that many new genera and species will be found among them. Remarkably good preservation characterizes most of the fossils. The Cambrian fossils are of unusual interest also because many of them can be closely correlated with those of Massachusetts, New Brunswick, Great Britain, France, Spain, Bohemia and Scandinavia, These correlations indicate definitely that an open marine passage existed between northeastern North America and northwestern Europe during Middle Cambrian time.

A comprehensive collection was made also of the ores and minerals of Newfoundland, twelve different localities being represented in the specimens secured.

At Sydney, Nova Scotia, Mr. Roy rejoined the Rawson-Mac-Millan Expedition on its return trip, and reached the Museum early in September. All the specimens which he obtained are of species new to the Museum collections.

Through the courtesy of Judge George Bedford of Morris, Illinois, an opportunity was afforded to send Mr. J. B. Abbott of the Museum paleontological staff to visit several localities in Kansas, Nebraska, South Dakota and Colorado from which vertebrate fossils had been reported. Judge Bedford not only generously donated the use of his car, but accompanied Mr. Abbott on the trip to these localities. The first point at which collections were made was near Winona, Kansas, where remains of a large Mosasaur had been reported to the Museum by Mr. Mentor Etnyer of the Etnyer Survey. This locality yielded a skull, lower jaws, paddle bones and some other skeletal parts of the large Mosasaur, Tylosaurus, all of which were carefully excavated and shipped to the Museum.

A find of the horned dinosaur, *Triceratops*, near Camp Crook, South Dakota, was next investigated, but the specimen proved to be too poorly preserved to warrant removal. The party then proceeded to the well-known locality for fossil mammals at Agate Springs, Nebraska.

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Associate Curat r Henry W. Nich is calle a brief trip to the " Se is at Lawre recalle, Hate a, in order to obtain data, riet has grid to the graphs for use to a nationality a model of an oil well for etalliber at the Massare. Through the handons of Dr. M. M. Leight a, Chief of the Line is State Geological Survey, Mr. E. R. Fritz of the Survey, who was thereughly familiar with the hell, emportance to a corpusy Mr. Nichols and assist him in security stata. A comber of the emportant wells in the district were vested, as I are at therey proteomicks and many shetches showing details of the pure years as i other features were made, all of which will be of reach acceptance in mounty accuracy and distructiveness in : c : . ; c

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Dr. James H. C. Martens, the geologist of the First Rawson— MacMillan Subarctic Expedition, completed his studies of the series of sands which he collected in the regions visited, and his results

are now in course of publication by the Museum.

An illustrated lecture on mining in South America was given during the summer at the Museum by Associate Curator Nichols to members and guests of the local section of the American Institute of Mining Engineers. Associate Curator Elmer S. Riggs gave a lecture, during the Museum's spring course, on the fossils of the Valley of Tarija, Bolivia.

The Curator and members of the Staff devoted a not inconsiderable amount of time to answering inquiries received by letter and in visits. Information was furnished in this way to 350 correspondents and sixty visitors. These requests were largely for identification of minerals and fossils, but more general information also was often sought.

ZOOLOGY.—The zoological work of the Rawson–MacMillan Subarctic Expedition of Field Museum was largely devoted to fishes and to efforts to obtain exhibition material of the larger mammals, such as seals and polar bears. The expedition reached Nain, Labrador, late in July, 1927, and after a period of unloading, sailed on August 9 for a three weeks' stay in Baffin Land, where a circuit of Frobisher Bay was made. Opportunities for zoological collecting were very limited, and only a few specimens could be collected at this time. After returning to the station, near Nain, all hands were required for the work of building winter quarters. Freezing weather then set in.

Fishing through the ice was begun in January and carried on until about June 1, whenever weather permitted. Nets were set in the bay early in June and tended regularly during that and the following month. Dredging with a small dredge was done in July and August with very satisfactory results.

Meanwhile, hunting and trapping for birds and mammals were carried on, and much time was devoted to hunting seals, a number of which were secured. Polar bears were not found in the vicinity of the station, and members of the expedition were not able to secure against Deed, but information pay obtained for common of print. sector to quicked large colores when the artist and a stronger conbeen the so fear had alse exemple out eat bent out to ablanchance been subjected to be of their percent depletions so se . It was in a citera latitudes

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The experience of processed and formed tomogh the processes are the processes of the proces Makin Pleating Treatment Manufacturing Property. Mr. Ballot, previously travelled with Party Moreover on a Titley, that been

added to the list of Benefactors. The first division of this expedition is being led by the Roosevelt brothers personally. Accompanying them are Mr. Suvdam Cutting of New York, who will act as photographer, and Mr. Herbert Stevens of London, England, zoological collector. These four men expect to work northward near the Tibetan border in the provinces of Yunnan and Szechuan in southwestern China. This is an exceptionally rugged, mountainous country in which travel is likely to be slow and laborious. Thence, turning southward along the gorges of the Mekong River, the party will descend into northern French Indo-China where it will meet the second division. This second division has the following personnel. Mr. Harold J. Coolidge, Jr., of Pride's Crossing, Massachusetts. mammalogist and division leader; Dr. Josselvn Van Tyne, of Ann Arbor, Michigan, ornithologist; Mr. Russell W. Hendee, of Brooklyn, New York, mammalogist and artist; and Dr. Ralph E. Wheeler. of Cambridge, Massachusetts, physician and naturalist. This division will work intensively for some months, mainly in the northern and western parts of the province of Tonkin in northern French Indo-China. Much of this region is wholly unknown zoologically. and it is proposed to make a thorough study of its whole vertebrate fauna.

The two divisions of the party, after meeting in central French Indo-China, will proceed as a body to the province of Cambodia for a collection of large mammals to complete the needs for habitat groups in William V. Kelley Hall. The expedition will remain in the field during the greater part of 1929. It enjoys the cooperation of the Paris Museum of Natural History and the British, French, Chinese and Siamese governments.

The second important zoological expedition which set out in 1928 is the Crane Pacific Expedition of Field Museum, sponsored and accompanied by Mr. Cornelius Crane, who is a son of Mr. Richard T. Crane, Jr., a Trustee and Honorary Member of Field Museum. The expedition is traveling on Mr. Crane's brigantine auxiliary yacht, the Illyria, recently built and especially fitted with laboratory, refrigeration, diving gear, and other equipment for zoological collecting. The party is as follows: Assistant Curator Karl P. Schmidt, of Field Museum, herpetologist and scientific leader; Dr. A. W. Herre, of Stanford University, ichthyologist; Dr. W. L. Moss, of Harvard University, physician and immunologist; Mr. Walter A. Weber, of Field Museum, taxidermist. Three friends of Frank C. Wonder, of Field Museum, taxidermist. Three friends of



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ian expedition, has again been most courteous in according privileges and facilities for travel. This is deeply appreciated.

The Department of Zoology had the following publications in press at the close of the year, as the result of research conducted by members of the Staff:

Zoological Series, Catalogue of the Birds of the Americas, Part VI, by C. E. Hellmayr.

A Contribution to the Ornithology of Northeastern Brazil, by C. E. Hellmayr. Leaflet Series No. 10. The Truth About Snake Stories, by Karl P. Schmidt, Leaflet Series No. 11. Frogs and Toads of the Chicago Area, by Karl P. Schmidt.

The Department acknowledges very substantial assistance from Volunteer Assistant Charles Westcott, who has been in full time attendance, and has catalogued 3,676 birds, read and corrected proofs of several lengthy manuscripts, and otherwise aided in carrying on the routine of the Department.

Following the general growth in recent years, the Staff has met with a great increase in miscellaneous routine which has made great inroads upon the time of every member. The demands from the public for information or assistance by letter, by telephone, and in person are vastly greater than formerly. Increased activities in exhibition work, in the conduct of expeditions, and in relations with other Departments of the Museum and with visitors from other museums both American and foreign, all combine to keep the Staff fully occupied.

The following list indicates the various expeditions in the field during 1928:

LOCALITY	Collectors	MATERIAL
Kish, Mesopotamia (Sixth season)	Stephen Langdon L. C. Watelin Henry Field T. K. Penniman René Watelin	Archaeological collections
British Honduras (Two expeditions)		Archaeological collections
NORTH ARABIAN		
Desert	Henry Field Eric Schroeder	Archaeological collections
PERU	A. Weberbauer	Botanical collections
PANAMA	G Proctor Cooper	Botanical collections
Nicaragua	F. C. Englesing	Botanical collections
Newfoundland	Sharat K. Roy	Paleontological collections
Abyssinia	. Captain Harold A. White Major John Coats C. J. Albrecht	Zoological collections

George E. Carey, Jr.

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ACCESSIONS

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The relative secured by Asserted I trains of trong as entirepolaried of the European MacMillour Relation Experience of 1975–28 march of some 200 objects from Territory are related since, 1971–28 from present day. Edition survivage and suppression, for invaried exhibiting of thesis from the Machine Environment and some thirty five ground Environ galacters or pure thereof.

The archamingfull property or beaves to the main two persons estimate the open in the storage of the Labracian Estimate. From these are a large transfer of test property main properties to the company of the property of the company ground-stone ulus, or women's knife-blades, are the most interesting. The second period is that of the earliest Christian missions on the coast (about the year 1770). Bone and ivory harpoon-points, well carved soapstone dishes and lamps, caribou antler implements, and abundant beads or carved ornaments are particularly well represented. In addition there are a number of iron tools and hunting implements of an early type.

A small collection of artifacts from the modern Eskimo serves to bring this representation of ancient Eskimo life up to the present time. The skeletal material from ancient graves will be of great value in determining the physical characteristics of the older people on the coast, and when compared with the large series of modern Eskimo measurements secured by the expedition, will show the modifications that have taken place due to hybridization and changed conditions of life.

The collection from the Naskapi Indians illustrates nearly all phases of the life of these interesting and primitive American hunters. Their clothing is well represented, including their finely painted coats and leggings. Naskapi beadwork, which was obtained in considerable quantities, is remarkable both for its beauty and for the unique character of the designs, which seem to be rather different from the general type of northeastern Indian art. Wooden bows and crossbows, arrows of various types, stabbing spears for killing caribou in the water, and fishing implements, all serve to demonstrate the manner in which the Indians secure a living in their barren environment. The crossbows are of especial interest as not being truly native, but as having been copied from European examples in colonial times.

Skin-dressing tools, native types of knives, well-made snowshoes, toboggans, games of various sorts, and a large number of drawings made by the Naskapi themselves complete the collection. These sketches will be of great interest to the student of Indian art, depicting as they do the life of the people as they themselves see and portray it. On the whole this collection, in conjunction with a similar collection purchased from Dr. Frank G. Speck of Philadelphia, who secured it from the Montagnais of southern Labrador, will give the Museum a very representative exhibit of this culture area.

A small collection of articles of clothing, household utensils, and snowshoes from the Penobscot Indians, Maine, who are closely related to the Naskapi, was purchased also from Dr. Speck, who are all a set the period of the

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art continued to flourish at its highest level long after signs of decadence were making their appearance in other cities. There are now known to have been a series of cities with dated monuments running along the north and south line, which now forms the frontier between British Honduras and Guatemala. In the north are situated Cax Uinic and Benque Viejo, in the center Hatzeap Ceel, and in the south Pusilha, where a series of stelae were discovered during 1927 by a Field Museum expedition.

Through the generosity of Mrs. Chauncey B. Borland of Chicago the Museum obtained one of the most remarkable objects received this year-a fossil turtle of the Miocene period found in Shen-si Province, China. The carapace of the turtle is covered with six delicately traced inscriptions revealing the earliest stage of Chinese script which is identical with that found on the famous oracle bones of Ho-nan. The tortoise, in the estimation of the ancient Chinese, was a divine animal endowed with supernatural qualities and the gift of predicting the future. At a very remote period the shell of the tortoise was one of the chief elements in the art of divination. The shell was scorched over a fire, and the cracks thus arising yielded a picture foreshadowing future events. The oldest forms and examples of Chinese writing are preserved on tortoise-shell fragments containing questions addressed to soothsavers and the answers given. An examination made of the fossil turtle by Assistant Curator Karl P. Schmidt, of the Department of Zoology, showed that it represents an unknown species of the genus Testudo. Thus it has a bearing on three sciences-paleontology, zoology, and archaeology.

Important additions were made during the year to the Museum's collection of ancient Chinese jades. Mrs. William H. Moore of New York (formerly of Chicago) contributed twelve choice archaic pieces of the Chou and Han periods: an outstanding mace of dark gray jade clouded with brown and russet spots and decorated with the seven stars of the dipper; a ceremonial axe-head of yellow jade engraved alike on both sides with delicate tracings of animals and geometric designs; another axe-head of light gray and green translucent jade, of very early date; a unique disk of green and brown jade decorated on both sides with different designs derived from the ornamentation of archaic bronzes; two green jade dragons, one from the late Wu Ta-ch'eng's renowned collection; a semicircular double dragon; a gray jade carving of a tiger; three jade carvings of fishes of naturalistic style, and a very rare spike of brown and yellow jade in the form of a pyramid.

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A very low old yars of passented financial term beauty toproperty of a strict manhought. The Walter Earth Company, Chicago, presented a piece of tapa from Samoa, decorated with geometric designs in the center and a vine painted on the border. An extraordinary drum from the Marquesas Islands was secured through an exchange with the American Museum of Natural History, New York. The drum is carved out of a tree trunk, and is more than seven feet high. Such drums were kept in temples and beaten to summon the tribesmen to a religious gathering at which the principal ceremony frequently was the offering of human sacrifices to the gods. The drummer had to stand on a stone platform about four feet high to reach the drum-head, which is made from the tightly stretched skin of a giant ray. The skin was beaten with the drummer's knuckles. These drums are scarce now; it is believed that not more than four are in existence.

A group of twenty-one valuable objects, chiefly from Polynesia, was received as an exchange with the Department of Ceramics and Ethnography of the British Museum, London. The collection includes some very rare articles made by the ancient Maori of New Zealand; a finely carved model of an old type canoe; a wooden box, decorated with beautiful carved designs, for preserving feathers; a kilt, and three cloaks of so-called New Zealand flax; two old wooden clubs from Fiji; a paddle club from the Marquesas; a spear-shaped club from the Hervey Islands; samples of tapa from Hawaii and Fotuna, and eight stone celts from Ashanti, West Africa.

The Museum's ethnological collections from Australia have been augmented by a welcome gift from Mrs. J. F. Connelly of Perth, West Australia, comprising four emu-feather plumes used by the aborigines for personal ornament; two bone pins worn through the septum of the nose; two bone implements for making fine serrations round the edges of stone spear-heads, and a pointing bone. The last-named is exceptionally interesting because of its use in magical ceremonies. The medicine-man, or any other person wishing to injure an enemy, repairs to the bush, taking with him this long slender bone. The instrument is held in the direction of the enemy's camp, while a curse is uttered.

A pair of so-called kurdaitcha shoes, purchased from Mrs. Connelly, consists of bundles of emu feathers bound with human hair. Yet, in spite of their harmless appearance, they were in time past part of the medicine-man's equipment when tracking a foe. The shoes are the same shape at each end, a fact which may render the medicine-man safe from detection. There would be difficulty in determining direction from such tracks, and the spoor could not



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The entire range of the paleolithic periods is very well represented by the collection of flint implements resulting from this expedition, which include a series of fine "laurel-leaf" (Solutrian) blades. Wherever possible, a complete collection of flint and bone implements and casts of animal remains found in one limited locality were purchased, so as to render the collections of greater scientific value and interest. The majority of the rarest prehistoric objects of France are in the Musée National at St. Germain-en-Laye near Paris; casts of most of these were purchased. Further, casts of all the remains of paleolithic man found throughout the world were obtained through Damon and Company in London and Dr. F. Krantz of Bonn, Germany. A set of casts of a frieze of animals found at Le Roc in the Charente by Dr. Henri Martin of Paris was also acquired.

Exchanges made during the year with the Logan Museum, Beloit, Wisconsin, and Mr. Harry G. Beasley of London, England, have resulted in the acquisition of two small but valuable collections from Africa.

The ethnological objects received from the Logan Museum were collected by Professor George L. Collie and his staff in southern Algeria and the Hoggar Mountains, a somewhat inaccessible region in the northern Sahara. This collection of sixty-eight objects relates to the culture of the Tuaregs, a tribe engaged chiefly in breeding camels and carrying on the caravan trade of the Sahara. In this collection the most valuable object is a large shield of oryx hide, ornamented with ancient and intricate designs. Several locks of brass and wood are of a pattern traceable to ancient Egypt. Baskets of the coiled type, richly ornamented leather goods, and a pottery drum are welcome acquisitions. A small group of personal ornaments includes a stone armlet of ancient pattern, valuable alike for its antiquity and excellent workmanship.

From the collections of Mr. Beasley, Field Museum acquired a set of 122 small brass weights from Ashanti on the west coast of Africa. These were used in time past for weighing gold dust in the presence of the king. They are cast by the lost-wax process, and their forms are interesting in relation to the plant and animal life of the country. Other objects of interest in this collection are a well-carved wooden mask from the Yoruba and a peculiar human fetish figure from Gaboon near the mouth of the Congo. From the

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from the Barotse tribe. It includes baskets, wood-carvings, weapons. pottery, musical instruments, and a good series of fur cloaks made from the skins of various animals, previously lacking in the Museum. Five of these robes have been placed on exhibition. Seven Zulu tobacco-pipes of types not previously in the Museum were given by Dr. Ralph Linton.

In addition to the material accessioned last year, about 1,500 objects from the Bara, Tanala, Betsileo, and Imerina tribes of Madagascar were received this year from the Captain Marshall Field Expedition to Madagascar in charge of Dr. Linton. Especially noteworthy are fine wood carvings and brass castings from the Bara and an unusually complete Tanala collection illustrating practically all known types of artifacts produced by this tribe. Three large iron lamps, one of these the property of the last Betsileo king; a ceremonial axe, emblem of royalty among the Betsileo; two royal robes of silk heavily beaded, the only ones which have ever left the island; about fifty other robes of wild silk and cotton, and four magnificent carved panels are the outstanding features of the Betsileo collection. The Imerina material consists of a number of fine blankets of domestic silk and a huge blanket of wild silk woven by an Imerina princess to be used as her shroud, one of the best examples of Imerina weaving extant. Most of this Imerina material has been placed on exhibition.

BOTANY.—The number of specimens received by the Department of Botany in 1928 was 21,864, an increase of 6,946 over the specimens reported for 1927. The number of accessions was 241. Of the specimens mentioned, 1,930 were additions to the economic collections, consisting in large part of wood samples. The remainder, amounting to 19,934 specimens, were herbarium specimens.

Of the herbarium specimens, 2,900 were presented by friends of the Museum; 11,155 were received in exchange from various institutions and individuals; 3,900 were purchased, and nearly 2,000 were acquired as the result of Museum expeditions.

Professor Samuel J. Record, Research Associate in Wood Technology for the Museum, and professor at the Yale School of Forestry, has continued to contribute herbarium material of tropical American timber trees, and during 1928 forwarded 371 specimens, chiefly from Central America. Particularly worthy of mention among these was a collection made on the east coast of Nicaragua by Mr. F. C. Englesing, of the Bragmans Bluff Lumber Company, which has pared of more travel more it covered towers made plant mirror to wome. It fragings principle real space It is made of Trimpingson to where the princeting lead four time below. Distant Sport admitted some other parties their firefular which, the barber race, the contracts of wants of variation in and functions y have to

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As a contribution to the little-known flora of British Honduras it was particularly gratifying to receive from Dr. J. S. Karling of Honey Camp, Orange Walk, British Honduras, seventy-six specimens collected in the northern part of the colony. Mr. C. R. Lundell, of the Institute for Plant Research in Tropical America, Washington, D. C., forwarded 144 specimens from the same country, among them numerous latex-yielding plants. Dr. Salvador Calderón, of the Laboratories of the Department of Agriculture of Salvador, presented 110 specimens of Salvadorean plants, several of which were additions to the flora of that republic as published a few years ago by Dr. Calderón and Associate Curator Standley.

Professor L. A. Kenoyer of Kalamazoo, Michigan, sent to the Museum thirty-five specimens and photographs of plants of Barro Colorado Island, Canal Zone, for use in the preparation of a second list of the plants of this island by Professor Kenoyer and Associate Curator Standley, which is being published by Field Museum. Eight specimens of rare plants were received from Mr. James Zetek of Ancon, Canal Zone. The Department of Agriculture of Guatemala presented twenty-eight specimens of plants from the high mountains of that country. Mr. C. H. Lankester sent from Costa Rica eleven specimens of mosses, which have been determined through the courtesy of Mr. Edwin B. Bartram of Bushkill, Pennsylvania.

From Peru were received collections which will be useful for the flora of that country now being written by Assistant Curator J. Francis Macbride. Professor Fortunato L. Herrera, of Cuzco, Peru, well-known student of the Peruvian flora, presented 126 specimens from the wet tropical mountains, for use in the preparation of this work, and Mr. Oscar Haught of Negritos, Peru, gave forty-four interesting plants from the arid region of that locality. Both of these collections are particularly welcome because they come from localities not represented otherwise in the Museum's Peruvian herbarium.

Dr. Earl E. Sherff, of Chicago, as in previous years, has donated to the Herbarium valuable material, and in the past year contributed eighty-five sheets, mostly species of *Bidens*, a group of ComThe paper of the despread of the graph of the second of the second Cl. Clarrett of Sait Lake City, Vitary presented a decirable a rice. I \$11 section astract a treff task Utah Browther resently Atte Mer to March, of Sat Aut to, Teras, the light than increased Miss. Clic. Sortin Quinty a comprehenmeet at offer loss parts of dry national of two new Cognition (e.g.-line

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From the Royal Botanic Gardens, Kew, England, there was received in exchange an exceptionally valuable set of Colombian plants—647 specimens—collected many years ago by F. C. Lehmann. This collection, along with other recent ones, has added to the Herbarium many South American species not represented previously.

The California Academy of Sciences, through Miss Alice Eastwood, forwarded as an exchange a desirable lot of 415 specimens, mostly from Lower California. The Gray Herbarium, of Harvard University, through Dr. B. L. Robinson, Director, with customary generosity, transmitted 659 plants, nearly all from Europe. Brother Marie-Victorin, of Montreal, in continuation of former sendings, forwarded eighty-six specimens collected by himself in the still little-known districts of eastern Canada.

From the Universitetets Botaniske Museum of Copenhagen, through Dr. Carl Christensen, there was received a particularly valuable series of 276 specimens, consisting of plants collected in Venezuela by Eggers and Warming, and of the classic collections obtained nearly one hundred years ago in Mexico and Central America by Liebmann and Oersted, among them a quantity of invaluable type material. From the Hungarian National Museum were received in exchange one hundred specimens, beautifully prepared and informatively labeled, of the exsiccatae issued by that institution to illustrate the flora of Hungary. The Botanic Station of Brignoles, France, sent ten specimens and packets of seeds. The latter have been transmitted by Field Museum to the Morton Arboretum, Lisle, Illinois, for propagation.

The Museum has been able to secure by purchase several important and extremely useful plant collections from tropical America, and these, together with others obtained by gift and exchange, have made a very large contribution to the representation of tropical American flora in the Herbarium.

Among the more important purchases were 298 plants collected in Argentina by Mr. S. Venturi, of Tucuman, Argentina, among which are many species new to the Herbarium. One of the most successful collectors of South America, Dr. Otto Buchtien, of La Paz, Bolivia, collected 300 specimens in Bolivia which have added appreciably to the Museum's extensive representation of the Bolivian flora. Another Bolivian collection purchased consisted of 300 plants collected in the Province of Santa Cruz by Mr. Jose Steinbach of Buenavista, Bolivia. Coming from a province previously unexplored,



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During the past year Mr. C. S. Sewall and Assistant Curator A. C. Weed, of the Rawson-MacMillan Subarctic Expedition of Field Museum, obtained 678 specimens of plants, mostly from Labrador. This collection, supplemented by an equally large number obtained in 1926 and 1927, gives to the Herbarium a substantial representation from this region.

It is gratifying to note the interest evinced by the lumber and wood-working industries, as well as by various individuals and other institutions, in the wood collections of the Museum, as evidenced by the substantial donations of valuable specimens during the year.

The Yale University School of Forestry donated a collection consisting of 1,600 authentically identified hand-specimens of tropical woods which augments the reference collection considerably. The Museum reciprocated by sending exchange shipments for study and other purposes.

The Government Forest Service of Burma, India, forwarded a shipment composed of 178 identified wood samples of that country.

The Jacob Bayer Lumber Company of New York City donated a board of black cherry.

Samples of the well-known koa wood, in addition to the wooden parts of a ukelele and a finished instrument, were presented by the Hawaiian Mahogany Company of Hawaii.

Twenty-nine boards and planks of important commercial woods from various tropical countries were presented by the C. H. Pearson and Son Hardwood Company, New York City, to be placed on exhibition.

A collection composed of 260 hand-specimens of tropical woods was secured from the Panama region by Mr. G. Proctor Cooper, who undertook the exploration of certain districts of that area in cooperation with the Museum. In addition, a log of the rare and highly-colored "bloodwood cacique" was obtained for exhibition purposes.

A board of Honduras rosewood was received from J. C. Deagan, Incorporated, Chicago, manufacturers of chimes and xylophones. The United Fruit Company of Post to a nated a fearlish attribute

A pad of Parcelet manager; palested by Mr. Keeps Surel. product of the Agent Statement and Timber Limited by and beworld by the Tuly-School of Finnessi, Suttache the Moreous If the first sufferd in aperiment of the true much game of the upper Labora Strigentin

Mr. W. F. Liebert, of Highland Para, Introduction at Associate I the Museum, again den dafrated ha interest in the of words to augmenting the reference collection with several sair ples of foreign works

trough Pr few r Re of a very interesting exhibits fittle wood at 1 lates of the remarkable Constitution consister, was received. The particular tree, Course quaternilense Statutes, is adulted in its to the Pherio Physics district of Gantennia, On regions. Firm its is the fark a creamy white say, recembling man in appearative, excites at 1 when allewed to dry it becomes it by The tatives who are further with this later, use it commonly her cream in earlier, or a whose it with sugar to make a sacciment.

Cores of white plue were presented by the Botany Department of the C. Mr. Haron H. Smith of the Milanuree Partie Movement

The field of a Asymptotic Stee, "course brough," artenings, and for conducted purposes in South Assettes, was presented to Mr. G. A. Faryof of Parks, Disresped Company, Detroit.

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The of the cond interesting level questions which to the extra mine regions forms for our way to require just may desired by Probuse Samuel I Brook. The two proper pay of pair of a for several offer reported accounts by the Buddet Street of finite Lines Live

The tree producing this beautiful pinkish wood is *Rhamnus Zeyheri* Sond., of the Buckthorn family (Rhamnaceae), and grows in scrub forests or hot thorn-veld valleys in Zululand and neighboring regions. Ordinarily, it does not exceed twenty feet in height, and has a slender trunk that rarely attains one foot in diameter. The Kaffir name for the wood is "umini," while the Zulus refer to it as "umgoloti."

Because of its scarcity and color, the wood has been highly prized by the Zulus, and under the old tribal custom, still prevailing in the interior districts, the trees were not allowed to be cut. As a symbol of regal authority only the head of the royal house was entitled to carry a stick of "umgoloti," and infringement of this peculiar privilege was punishable by death. History recites that the Zulu king, Dingaan, who was vanquished by the Boers, invariably carried a spear of pink ivory. After his defeat he was put to death with this weapon, at his own request, by his henchmen.

Through the courtesy of Mr. O. F. Phillips of the Bureau of Agricultural Economics, United States Department of Agriculture, a tray of standard barley grains for the United States was supplied for the grain exhibit in Hall 25. The tray includes four samples of two-rowed barley—Hannah, Haunchen, Swanhalz and Chevalier; and eleven samples of six-rowed barley—Manchuria, Oderbrucker, Tenessee winter, Horsford and Gataui which are eastern grown, and Coast, Utah winter, Mariout, Trebi, Nepal and Black hull-less, all of which are grown in the west. It also contains a display of the defects of barley which are of importance as grading factors, such as damaged grains, heat-damaged grains, skinned grains, smut, soil, brome grass, other foreign material and dockage.

Some additions were made to the exhibits of edible oils, edible nuts and dried fruits in Hall 25 by purchase in the local market of fresh specimens of melon seed, a source of edible oil in some parts of the world, and of pistachio and cashew nuts and of litchi fruits

Tubers of the elephant ear were presented by Vaughan's Seed Store of Chicago for use in the exhibit of starchy tubers and starches, and some of the starchy tubers commonly grown in the West Indies, such as yams, tannias and eddois, were supplied by Acting Curator B. E. Dahlgren.

The New York Cocoa Exchange donated samples of the following eight varieties of cacao beans, including the most important commercial beans: Accra from British West Africa; Sanchez from the Dan Joseph Republic, Gradulta from Protest West Indian, Surgicality free, Dutet Guiatia, and varieties from Latinina, Venezuela, Thin is t. and Stellan, Steel

Tento are exceed excessor of its, yet asserted by the Blasser, he she Chings this at Irwin Sheriana, Watery, Seerpotential. These tampine observes the principal lead of recommen mently Paperson, Ottom and Challener. The Joyal Stee and represent by claim, nation had received grave of basic final waves, placed, franchise had benefits by parties of particular facilities and the foresters of the proposition for title, all tips and destine Figures Online by pin is represented by time prairie, at will as the appropriate decision, continue and common presentational test. stemped of them there are to e.g., alar varieties in is perial, and one or an extraction of second contraction The black or fermented teas, largely the prob-Division had not invested and of Phina, are represented by the Ellining peals total in facining arter, forcer print relies could below below below and they beside groups below and briket pitch

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from them, as follows; rope as received at the paper mill, rope cut and dusted, rope cooked, rope half-stock unbleached, rope half-stock bleached, jute bagging as received at the paper mill, jute cut and dusted, jute cooked, jute half-stock bleached, cables insulated with rope paper, insulating paper used for winding on wire, and samples of rag and jute papers.

At times the Department of Botany is asked to analyze samples of paper textiles. This has been done during the past year for the Department of Anthropology and the Division of Printing of the Museum. It is of great value on such occasions to have for comparison not only authentic fiber specimens and paper made from various kinds of authentic materials, but also slides and photo-micrographs of the various fibers of commerce. Nine photo-micrographs were received through the courtesy of the United States Bureau of Standards of Washington as follows: wood fiber of Douglas spruce (Pseudotsuga taxifolia), linen fiber (Linum usitatissimum), cotton fiber (Gossupium sp.), jute fiber (Corchorus capsularis), hemp fiber (Cannabis satira), sweet gum fiber (Liquidambar sturaciflua), paper mulberry fiber (Broussonetia papurifera), aspen wood fiber (Populus tremuloides), and rice straw fiber (Oryza sativa). Thirty microscope slides of commercial fibers, mounted by Mr. Edwin Sutermeister of Westbrook, Maine, were acquired by purchase, namely: pineapple (Ananas sativa), oat straw (Avena sativa), bamboo stalks (Bambusa arundinacea), pita (Agave sp.), ramie (Boehmeria nivea), New Zealand flax (Phormium tenax), bowstring hemp (Sansevieria guineensis), hemp grown in Russia (Cannabis sativa), hemp grown in the United States (Cannabis sativa), corn stalk complete (Zea Mays), sugar cane bagasse (Saccharum officinarum), linen (Linum usitatissimum), raffia (Raphia ruffa), two slides of silver leaf poplar (Populus alba), sisal (Agave sisalana), jute (Corchorus capsularis), manila hemp (Musa textilis), paper mulberry (Broussonetia papurifera). esparto grass (Stipa tenacissima), rice straw (Oryza sativa), cotton fiber mercerized without tension (Gossypium sp.), cotton fiber (Gossupium sp.), banana fiber from stalk (Musa sapientum), aspen wood fiber (Populus tremuloides), red oak wood fiber (Quercus, sp.) basswood fiber (Tilia americana), Douglas spruce wood fiber (Pseudotsuga taxifolia), and lodgepole pinewood fiber (Pinus Murrauana).

Dr. Salvador Calderón of San Salvador sent to the Museum a sample of the fiber of the palma de sombrero (Inodes sp.) of his

mative country. Mr. G. Proctor Cooper of Yale University dinated a long scale of the filter of pits S , a $A_{\rm pits}$ sp.

During the period under review a turber of width rad were products were received as gills from the Convectoral Solvents Corporation of Terre Haute, Indiana. These consists of the forwarding specimens of substances obtained from corporation of substances obtained from corporation of substances obtained from corporations.

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Market by the Ensemt MarMolan Expedition and are being 10 M. A. Howe of the New York Betanned Gurden.

The Department of Estate obtained during the year a number of

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CONTROL — The Department of Control temporal coming the same and the control of t

late husband, numbers 3,240 specimens, representing more than four hundred mineral species and varieties, or most of the important species in the entire range of minerals. Mr. Higginson's interest in minerals was aroused in early life through his studies under the elder Agassiz, and collecting was continued by him and Mrs. Higginson during the remainder of his life. Having been gathered during a long period, the collection contains many specimens from localities now exhausted. Minerals from these older localities were sometimes given names differing from those now in use, and the specimens from these localities now serve as paratypes of these varieties. All the specimens, when received, were carefully labeled as to species and localities. While many of the specimens are not of large size, there are plenty suitable to make a good display for exhibition. Suites of especial importance are those of tourmalines from Pierrepont, New York, pyroxenes from St. Lawrence County. New York; the series of micas and hydromicas, beryls and many other silicates from New England localities now exhausted, and specimens of gold from twenty localities, chiefly in California.

Mr. William J. Chalmers generously continued his interest in the collection of crystallized minerals, and presented to it forty-three choice specimens. These included excellent specimens of South African dioptase and cerussite, rare crystals of pyrrhotite and realgar from Roumania, and many specimens from European localities which had been held in early collections and had just become available. Mr. Chalmers also contributed a brilliant specimen of precious opal to the gem collection, and an interesting series of photographs, made many years ago, illustrating mining and other activities in Japan.

Mr. Richard T. Crane, Jr., made some notable contributions to the gem collections in Harlow N. Higinbotham Hall. Foremost among these is a carving of rose quartz in the form of a large bowl, eighteen inches in diameter and six inches in height, wrought from a single piece of the mineral of gem quality. The walls of the bowl are cut to such thinness (less than one-half of an inch) that they display to a marked degree the rare tints and opalescence of the mineral. Three emeralds, having a total weight of twenty-six carats, cut from gems obtained at Bom Jesus dos Meiras, Bahia, Brazil, were also included in Mr. Crane's contribution. These give an excellent representation of the cut emeralds of this locality, from which four large crystals had been collected by the Curator in 1923. A dish of vesuvianite of the variety known as California jade, carved by an



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Eleven specimens of potash salts from Texas and New Mexico, which were presented by the United States Geological Survey through Director George O. Smith, are of importance as indicating possible resources of potash of unusual value in the United States.

A number of valuable specimens of minerals and fossils were received by exchange. From the Eastern Washington Public Museum at Spokane, Washington, through Mr. C. O. Fernquist of that museum, there were received, by exchange, twenty-five specimens of the interesting hyalite, opal, sphaerosiderite, et cetera, that are obtained from cavities in the volcanic rocks about Spokane, and are peculiar to that region. The fossils comprise chiefly well-preserved leaves and other plant remains of the Miocene age, which also occur in the Spokane region. Both the fossils and the minerals when received, had all been carefully identified, prepared and laheled.

From Professor H. H. Nininger there was received, by exchange, a full-sized section, weighing seventy grams, of the Ballinger, Texas, iron meteorite, and a full-sized section, weighing 886 grams, of the Mount Tabby, Duchesne County, Utah, iron meteorite. The latter is remarkable for the unusual beauty of its etching figures and for its content of nodules of an anomalous iron sulphide.

Exchange with the Paterson Museum of Paterson, New Jersey, through Mr. James F. Morton, Curator of that museum, added to the collection in Field Museum fourteen specimens of the minerals which occur in the trap rocks about Paterson. Several of these specimens are of large size and showy aspect.

A fairly complete skeleton of *Oreodon* from Nebraska, and a good skull and jaws of *Poebrotherium* from Wyoming, were obtained by exchange with the University of Chicago. They give the Museum a more complete representation of these fossil mammals than had been possessed before.

An important addition by purchase was an exceedingly well-prepared slab from the fossil beds at Holzmaden, Württemberg, showing a complete skeleton of the crocodile-like animal, Steneosurus. This slab is two by eight feet in size, and shows practically all parts of the skeleton, preserved in a natural manner. The animal was a crocodile-like reptile characterized by a long, slender head with numerous teeth, and having numerous, bony, deeply pitted plates covering part of the body.

Two iron meteorites were added to the meteorite collection by purchase. The largest of these came from Gladstone, Queensland, Australia (figure a feat) (figure a feat) (figure a figure a figure a feat) (figure a feat) (figure a figure a feat) (figure a figure a feat) (figure a feat)

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Joseph Strike presented, the great respectant in a decrease of Physicianter parameter, a spot famility American Dynamics treatment from Mr. A. do. N. Instituti of Physics Laminos, Parameter, Territoria, editor Safety, Denny Society, American, para in confirmation, near recognition for mechange Denny Society, American, National Misseum. These lett a langually, Dichelmona Physics, Denny Appendixs, and a Symbolism, Waterlandooks athleten, from Chile.

The distance of regime towards to the agencies from marine bearing. Expensity assessments was a colorine of their likely part for makes from Malacine presented by the Colifornia fraction of Factoring toward for Denicle E. Divine, Ottogotto of marine, and associates instead from Colifornia marine from Colored M. L. Colorine of Der San Human, Toyan, also Oklahoma frogs from Miss E. R. Force, of Tulsa, Oklahoma; seventeen German reptiles from Mr. C. F. Gronemann, of Elgin, Illinois, and 176 specimens from Wisconsin collected and presented by Mr. F. J. W. Schmidt, of Stanley. Wisconsin.

No extensive gifts of fishes were received, but two especially fine specimens of North American species were presented. These were a large lake trout from Mr. E. C. Vacin of Chicago, and a specimen of the inconnu, Stenodus mackenzii, from the Booth Fisheries Company of Chicago.

The number of insects accessioned was 2,853 of which 2,173 were presented by Associate Curator W. J. Gerhard, being specimens collected over a number of years during vacation periods in Illinois and Indiana. Certain large and desirable insects to the number of fifty-four were received as a gift from Señor E. Jacy Monteira, Rio de Janeiro, Brazil. Local insects donated include ninety-eight specimens from Mr. Bryan Patterson, Chicago, and fifty-two from Mr. A. B. Wolcott of Downer's Grove. Illinois.

The most extensive zoological accessions of the year were those received from the Rawson-MacMillan Subarctic Expedition of Field Museum, which added 4,433 specimens to the collections. Of these, 2,711 are insects and other invertebrates, while 1,500 are fishes with which are important and valuable colored sketches made from fresh or living material. Mammals to the number of 118 were obtained, and eighty-eight birds and eggs, collections in these groups being relatively small, owing to very unfavorable conditions.

DEPARTMENTAL CATALOGUING, INVENTORYING AND LABELING

ANTHROPOLOGY.—The number of accessions in the Department of Anthropology during the year was fifty-one of which thirty-two have been entered. Eight accessions from previous years were also entered.

The work of cataloguing has been continued as usual during the current year, the number of catalogue cards prepared totaling 5,825. The total number of catalogue cards entered from the opening of the first volume is 181,159.

The 5,825 cards written during 1928 for accessions received during the year or in previous years are distributed geographically as follows: North American archaeology and ethnology, 93; Mexican, Central and South American archaeology and ethnology, 641;

these in the second of S.F.C. envise entered in the second of S.F.C. envise entered in the second of S.F.C. envise entered.

A total c (46) labels for use in exhibition cases were particularly and placed. These labels are distributed as follows archaecing. 170, ethnology of Africa, 1,714, ethnology of Malagassa. 171, ethnology of Malagassa, 3,026; archaecingy of Menos as 14,021; ethnology of Smith America, 160; ethnology of the particular of the particular

To the Descriped's allows 1,807 photographs were allied.

Foravi — During the year entries made in the catalogue of the Berharian associated to 9,628, bringing the total mounted sheets to 180,387

125th were entire for about 1970 specimen in Diminish and, to excell the end current assesses, and for deplicates are beautiful California.

At the most the retere to the country of minhering close to 7,000 specimens, are now labeled and arranged in a systematic order, as outlined in last year's Report. This enables any particular appearance to be beauted with each

For the classified index of the specimens in the economic collections everal thousand new cards were written and filed. A past of the instead in the economic reference and storage is alessative only in a consession of the control o

Descriptive tables were switce for all two testablishes in the establish table. Diagrams showing resolved temporalism and maps showing distribution were prepared for various economic exhibits.

The filing, as a card index, of the labels in the exhibition halls has been continued.

Several thousand index cards to agricultural literature have been received from the Institut Colonial de Marseille. These have been classified and filed.

GEOLOGY.—The total number of specimens catalogued during the year was 4,575, making a total of 184,472 now recorded. Of the additions, the largest number were from the mineral collection presented by Mrs. Charles M. Higginson, which amounted to 3,240 specimens. Other additions of some magnitude were 384 specimens of fossil vertebrates and invertebrates from the collections of the Captain Marshall Field Paleontological Expeditions to South America; 241 specimens of Illinois fossil plants, invertebrates et cetera, presented by Mr. Bryan Patterson; 215 specimens of crystallized minerals and photographs presented by Mr. W. J. Chalmers; 118 specimens and photographs presented by Dr. O. C. Farrington, and 72 specimens of minerals and fossils received by exchange from the Eastern Washington Public Museum.

Some special exhibits and series were provided with labels of the latest type during the year. These included the exhibit of Baffin Land and Newfoundland fossils and minerals in Stanley Field Hall, and in Ernest R. Graham Hall seven of the Knight murals; a case of mounted tablets of invertebrate fossils, and a case each of fossil sponges, Jurassic invertebrates, Jurassic ammonites, fossil crinoids andmo dels of dinosaurs, Miocene horses and rhinoceroses, and Minooka (Illinois) Mastodons. Typewritten labels have been provided in Graham Hall for a case each of South American fossils, Mongolian fossils and fossil fishes. In Hall 36 the case of pigments has been supplied with typewritten descriptive labels.

Copy for a total of 3,979 labels was sent to the printer during the year; 704 printed labels were received. Typewritten labels for exhibited series made during the year numbered 379. Typewritten labels of the style used in the study collections were also made for all the specimens of the Charles M. Higginson mineral collection.

For Ernest R. Graham Hall, copy was prepared which indicates the place on the geological scale of the specimens contained in each case. These labels include lists of the characteristic fossils of the periodical substitute is section to to at 1 the factions to exist the operations by g. Common tax or of the forms to reaching are and as far as possible

Morning of protographs prints in the Department's affaires ther recept during the year, and a total of 160 atted inpentites lately acre provided for all prints all represent outperts for performal pents rapids which had been selected during the year

Leavest Regular culties in the sological cuta gues were state for COM specimens. These were dotributed as follows: mainmais 1,840, t res 4,000, reptiles, 108, sheletons, 14; masses, 2

Sperimens of many partitioned as cutal quel, and Museum labers were a uttached to fed shins and 300 seal's the sime of 2 some numbered Special late's have been provided for shine of large maintain's, and the senting of these lates A card states has been prepared for these large skins - few other entries, adds 340 cards nothing the stand the base of other time. I construct a random of goods folded has been placed on the Dearest of the test emerges name for the course and both

On the absence of Associate Carator Affred C. Wood in the felf, to catal gaing was done in the Division of Pishes. The ental good at the Danis, mod Reptiles is nearly abreast of the access a. ta, so to especial effort was made there and only 198 entries appear.

Excitation labels were prepared and metalled as follows: manut als 36, Lines, 92, rept. es, 49, fishes, 62. Copy for exhibition labels. recovery del for her is and 41% for most is, was prepared

In the Department's photography all and 1,200 prints were reacted during the year

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INSTALLATIONS AND REARRANGEMENTS

August person. The most of the event of the year was the opening to the published on June 1 of all new establishes halfs located on the ground floor. In accordance with this plan all efforts during the first part of the year were bent toward completing this task with the best possible results.

A total of sixty-five exhibition cases, including three life-size groups, were installed during the year, located as follows:

Egypt (Hall J)	6
Africa (Hall D)	2
Madagascar (Hall E)	25
Polynesia (Hall F)	1
Malaysia (Hall G)	
Stanley Field Hall.	
Mexico (Hall 8).	
South America (Hall 9)	
Tibet (Hall 32)	
China (Hall 24).	
Onina (fiail 24)	1
Total	65

Hall J, devoted to the archaeology of Egypt, has been completely reorganized. Previously Egyptian mummies had been exhibited individually in nineteen special cases which varied considerably in size and hardly permitted a detailed study. These old cases have been discarded, and the mummies and coffins have been aligned in a consecutive chronological order in two built-in cases extending 119 feet along the north wall of the hall. Walking along this case from west to east, the visitor is able to study human mummification and burial in Egypt through a period of 2,500 years, as the coffins on exhibition range in date from the tenth dynasty at about 2300 B.C. to the Roman period of A.D. 200. Encased top-lights make for an even diffusion of light, and variety of exhibits is insured partially by the use of slanting bases, and partially by placing mummy covers with carved portraits erect. Coptic fabrics from graves of early post-Christian centuries hang on the wall as a background. and painted linen shrouds from mummies occupy the end walls. A facsimile of the funerary papyrus of Ani is shown in the upper compartment of this case. A built-in case along the east wall of the hall, sixty-three feet in length, contains tomb-sculptures and frescoes in chronological arrangement, running north to south from the third to the nineteenth dynasty (thirtieth to thirteenth century B.C.). The compartment above this case contains plaster casts of important tomb and temple sculptures, the originals of which are still in place in Egypt.

A reproduction of the famous Rosetta stone is shown in an illuminated wall-case. Six X-ray pictures, made in the Museum's



- April

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Division of Evertgenology, of month as in the collection, artisal sage, are establised. A boot on case, there's feet long, on the southwest of the body is used for a display of not employed. On the southwest the lower compartment, and parts of parameter, topeartment, and embed decrease in the upper one. The statistic of Season, the formed architect and statements of the eighteenth dynasty, has been placed in the center of the body-in case opposite. On a section of the southeast wall two carried wooden believely fronts from Carro are well-

The associations of the Egyptian reference with be noticed durant TOD

In the latter part of 1927 there had been prepared thirty-live cases for Justa latters in the their proposed African Hall, which at that the excess but ready to rescave them. In the period from January to June of this year the extilets in these cases were completely labelet, at 1 110 th degraphs and water-colors were a ided. Two cases were installed in addition to the thirty-live noted in the last Arrual Report. The more important of these is a built-in case on the west wall of the ball, about forty-eight feet long and afteen feet figh. This case contains well selected examples of the woodworker's craft from Cameroon, West Africa, such as door-posts and window-France (seed in the brosses of minets, large excelled inflying of bismus. form, which distributed stoped to the formed beganning and a sension ted introducty rapped. A recognitive best proposed of evod from the Damendaryseph, Oragini to be unique to far as the Common. included in 0 exhibit. The either case makalant flurning the year alcone three primitives properly of chealer of the Salps of South Africa, made from the pions of the love part party maddle

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Hall D is curried out on a ethico-prographical is. The area setuple is been represented is that of Cantervan, catables from the region shows on the best basis of the ball are almost once that of the ball are three table of the entire collection.

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West African life in Cameroon, and material from Togoland, the French Sudan, Angola, the Congo, and other parts of Africa.

During the year the collections obtained by the Captain Marshall Field Expedition to Madagascar of 1926-27 were installed in twentyfive cases in the eastern half of Hall E. The native cultures fall into three groups, and this arrangement has been followed in the installation of the hall. Material from the Plateau tribes is shown on the south side of the hall. These tribes-Imerina, Betsileo, Sihanaka, and Tanala- resemble the Malays in physical type and to a lesser degree, in culture. Their arts and industries are well developed. The collections include a great variety of textiles woven from silk of the domesticated silkworm, wild silk, cotton, hemp, raffia, bast and banana fiber. Except in the Imerina tribe, the designs are simple stripes, but show a fine sense for color. Fine mats from the Sihanaka tribe, steatite lamps of the Imerina, ornamental iron lamps of the Betsileo tribe, pottery, and a series of wood carvings are also shown. Attention should be drawn to the oil and water-color paintings made by native artists after European models. Plateau tribes had no pictorial art of any sort prior to their contact with Europeans.

Material from the tribes of the southeast coast of Madagascar is displayed on the north side of the hall. The tribes of that region are more negroid than the Plateau people. They are, for the most part, ignorant of both weaving and pottery. They dress in flexible mats, and a series of these mat costumes, showing the various types, occupies one case. A single tribe, the Betsimisaraka, weave raffia cloths, examples of which are displayed.

The culture of the tribes of the west coast and south of the island is shown in five cases in the northeast corner of the hall. These people are negroid in type and are moderately advanced in all the arts, but their work exhibits strong African affinities. They have also been considerably influenced by Arabs, and certain Sakalava groups are Mohammedans.

The tribes of the south—Antandroy, Mahafaly and Bara—are represented by small general collections illustrating their arts and industries. Their wood carvings and weapons merit special mention.

The Sakalava of the west coast are more fully represented, the exhibits including implements, weapons, jewelry, matting, baskets, and textiles. A fine collection of gold and silver jewelry shown in one case is believed to be the best in existence. The figured raffia cloths displayed in another case are the only ones of their sort in any

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Hall H, containing a total of thirty-five cases representing the ethnology of the Philippines, was thoroughly rearranged. The groups are now assembled along the south side, and other exhibits occupy the north side of the hall.

Two special cases with framework of bronze were constructed in the south corners of Stanley Field Hall. Each of them contains two large ceremonial feather masks from Hansa Bay, northern New Guinea. Two of the masks are nineteen and two are fourteen feet in height. They are placed on life-size casts of figures, modeled in the Department. The masks were formerly shown without these casts in Joseph N. Field Hall.

Exhibits in a case in Stanley Field Hall, which previously contained selected material from Madagascar, were changed twice during the year. The first exhibit consisted of three bamboo screens or blinds secured by Curator Laufer on the Captain Marshall Field Expedition to China in 1923. These blinds were made exclusively for the doors of the palaces of the Manchu emperors in the eighteenth century, are exceedingly rare, and are unique in their technique. They are composed of thin bamboo rods, chiefly of the spotted bamboo, carefully matched as to color, and tied together. Pictures are formed by strips of silk of various colors skillfully wrapped around each single rod, and are identical on both sides.

This exhibit was changed in October to make room for a display of some choice Chinese fabrics, also obtained by Dr. Laufer on the Captain Marshall Field Expedition to China in 1923. A set of three is shown—a table-hanging and two chair-covers which were used in the palaces of the Manchu emperors for the decoration of tables and chairs on ceremonial occasions, especially on New Year's day. They are a marvelous combination of tapestry weave in exquisite colors with gold brocade. These tapestries were manufactured for the imperial court in the K'ang-hi period (1662-1722). An elegantly decorated roll of purple satin brocade, nearly fourteen feet long, wrought in gold threads, likewise made for the palace in Peking, is shown. A green cut velvet panel of the K'en-lung period (1736-95), and one in red velvet containing figures of the god of longevity and the Eight Immortals are in the same case.

In December the Eskimo collection presented by Mr. John Borden, and temporarily shown in Stanley Field Hall, was replaced with a representative series of selected objects secured by Assistant Curator William D. Strong from the Naskapi Indians of northeastern Labrador during the operations of the Rawson-MacMillan

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the Chinese potters took their models from nature. In white and greenish glazes they strove to emulate the colors of jade, as testified by the seal on a bluish gray porcelain bowl, which reads "resembling jade." A tea-pot, a tea-cup, and a bowl of Temmoku ware, decorated with a dark brown glaze interspersed with irregular vellow speckles in imitation of tortoise-shell, are other features of the exhibit. Included also are many exquisite and rare Temmoku bowls, white and light green bowls of Ting-yao and Yin-ts'ing types, hard and soft Chün-vao, and two unusual pillows of Ts'e-chou porcelain.

In A.D. 1108 the town Kü-lu in the southern part of Chi-li Province was submerged by a flood. Excavations made in recent years on the site of this town have brought to light quantities of pottery and furniture. One of these jars, shown in this same case (there are many others in the Museum's collections), has an over-glaze decoration in brown of floral designs arranged in medallions, and is provided with an inscription which yields the date A.D. 1107. The interesting point is that this vessel was made one year prior to the destruction of the town by the flood, and that it is one of the few dated pieces of Sung ceramics.

Eleven reinstalled cases representing the archaeology and ethnology of Mexico and Central America were placed in Hall 8. A remarkable collection of serapes from northern Mexico, previously presented by Messrs, Martin A. Rverson and Homer E. Sargent, was reinstalled in a very effective manner. Other cases comprise Mexican pottery of the Aztec period; painted and incised pottery as well as large stone sculptures from the Valley of Mexico: the culture of the Toltecs and Tlaxcaltecs distinguished by fine necklaces, clay figurines, and masks of obsidian and onyx; and the archaeology of Mexico in the states of Guerrero and Oaxaca, as well as the archaeology of Panama.

One case of material never shown before, comprising gold and copper ornaments, necklaces, and ceremonial stone implements obtained by Dr. J. Alden Mason on the Captain Marshall Field Expedition to Colombia of 1922-23, has been added to Hall 9, which is devoted to the archaeology and ethnology of South America. Seven reinstalled cases in this hall contain the following; clothing and hunting implements of the tribes of the Orinoco Basin in Venezuela and Colombia: objects representing the domestic, religious, and ceremonial life of the tribes of the Northwest Amazon Basin; clothing and weapons of eastern or Amazonian Peru; dress

and persons processed on the train of the Union Charm and Charles of the America Desire of Street.

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the carpetity section. The carries of cityletic relations and the small individual shelves were made.

1.785 blocks for labels and 164 pieces of beaverboard for covering the bettima of cases were cut, and twenty-five wooden bases were made.

Twenty-two-posture fraction were posite for Chinese still Tibelian panelings, and forty-severa of these were framed intolar gime. A total of 141 photographa, rouge, and large descriptive labels were fracted for use in establishm cases. Six large wall-rouge were hadg in the fails on the ground their

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Description number makes or Mesons objects storing to your trades TL/CL The work of arranging ancient Egyptian and Coptic textiles and mounting them on linen for better preservation has been continued throughout the year. Five large portfolios of beaverboard were made for the safekeeping of the mounted fabrics.

In the modeling section of the Department, four life-size casts for the New Guinea dance-masks were completed. Head and hands were modeled and cast for the figure of a Manchu woman from Peking. A life-size figure of a Semang pygmy making fire was completed. The life-size figure of a Dyak head-hunter has been modeled in clay to be cast in the near future. Several miniature figures were modeled for the Menangkabau village group. Maya casts in Hall 8 were repaired and retouched. Forty Egyptian and Mesopotamian bronzes were treated by means of the electro-chemical process.

In the repair section of the Department six hundred objects were treated, repaired or restored as follows: 113 pieces of Mexican, Maya, Peruvian and Colombian pottery, stone work, and gold; one wooden Japanese statuette; twenty-six Chinese paintings, pottery pieces, silver and stone objects; twenty-seven Tibetan paintings and painted wooden panels; one wooden cup from Formosa; sixteen musical instruments from Java, and one from Hawaii; four strings of Melanesian shell-money; 171 fabrics, sixty-five alabasters, ten pottery jars, five mummies, and three frescoes from Egypt; eleven pieces of pottery from Kish; fifty-one stone implements and one necklace of the French paleolithicon; eighty-five objects from Madagascar, and twenty African wood carvings. The incised lines in the cast of the Rosetta stone from Egypt were whitened to render the inscription clearer and more legible.

The books of the Department Library were vacuum cleaned and rearranged.

BOTANY—So much time was spent during the year in preparation for an ecological group of alpine vegetation, and on restoration of fossil plants for the Carboniferous Forest group, the latter of which is to be a feature of the rearranged Ernest R. Graham Hall in the Department of Geology, that the output of the Stanley Field Plant Reproduction Laboratories for the Hall of Plant Life was greatly reduced.

The most notable addition to the exhibits in the Hall of Plant Life was the reproduction of a cassava plant completed early in the year from material secured by the Marshall Field Brazilian Expedi-



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at is the Built of Fund Life, a locality transfer in fracting condiyes concerned man Change and reproduced as an illustration of general characters of its group. It has been installed, together for an all the products of the conditions of the contraction of the conditions of the

A branch of Central American management, the so-called Homburan male-gary, where with its large forage critiers so greatly in appear as of from the mean derived. Went Institute or Curban translogative, was obtained from the Government Experiment Carriers at Port of Spaces. Translate The branch has been expressioned in the Statley Field Laboratories in the Moscorie to be used for a display of various translation of translation, being prepared for temperature excluding in Plancks Field Hall, and for subsequent per some instance in the Hall of Foreign Woods.

allyine plants, destroyed to form a part of an emission was a lacted on the formy Range, near Lacteries, Wysmens,

they were collected. They include the Rocky Mountain aster (Erigeron uniflorus), which resembles strongly the common English daisy, the yellow avens (Geum turbinatum) with buttercup-like flowers and rosettes of much divided leaves, the vellow alpine ragwort (Senecio Fremontii), a sedge (Carex sp.), and the bistort (Polygonum bistortoides), a characteristic alpine plant of the dock family.

Among exhibits under way for the Hall of Plant Life may be mentioned a flowering and fruiting plant of the so-called Panama hat palm which, in spite of its name and its palm-like leaves, is not a palm, although it belongs to an allied family.

The reorganization of the storage collections of economic material. and the new record system which has finally been carried to completion during the year, has made it possible to locate and add some desirable material to the existing installations. The case of true peppers, for which the Stanley Field Plant Reproduction Laboratories furnished the model of the pepper vine as related in last year's Report, has thus been completed as far as the Museum's material permits.

New labels have been placed in Hall 29 as well as in the palm collection and among the food products in Hall 25.

An attractive case containing panels of rare and fancy woods from remote parts of the world was placed on exhibition in Stanley Field Hall. The exhibit, which proved of considerable interest to both the public and lumbermen, comprises woods which, due to their valuable qualities such as density, color and figure, are now gaining favor with the American wood-working industries and are being used extensively for various purposes. For example, there is padouk, one of the woods represented in the case, which possesses a brilliant red color and is used mainly for the manufacture of furniture. Another is the well-known commercial wood, lignum-vitae, which is renowned for its great strength and density. These properties, combined with its self-lubricating properties, make it especially adapted for bearings under water. It is used for making bushing-blocks for lining the stern tubes of propeller shafts of steamships. Another kind shown is Honduras rosewood, which is used for making the bars of percussion instruments, xylophones and marimbas, for which purpose it is particularly fitted because of its density and resonance.

The project of reinstalling the wood exhibits in the Hall of North American Woods has been started with the rearrangement of the case allocated to the pignut hickory. The substitution of a label for the hara type used heret for at 1 the of a reproduction of a branch in place of a plotograph of make the critical in the attractive

Under the superior of Assistant Curator Jones E. M. Nair with was direct statulation and frustance of of the to tar al material

In Hall 25 establis of seeds of the bear family, will elf te an e fee, tea, baties, and coldie hats were that of its these ballifile the next-extense becomes order you havy followed by the becaused if each peop. The name the colding naturalist M Read Stations, who list protects of the current many limited brought in his fasteries' print. The specimen is not stilled have been from 14 accordance will the space analysis, and the exhibits have been made as coming at practice. Then the varies is and comparison to come a great series of depriness had commented multery).

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and Mexico. The adulterants include as diverse articles as peas. chicory, malted barley, wheat, dried prunes, soy beans, dandelion root, and rice.

From 316 specimens of tea available in the Museum's collections thirty-three have been chosen for exhibition. They include representatives of the various grades of tea from Japan, Formosa, China, South Carolina, Ceylon, Jamaica, India and Java. There are shown also brick tea from China and "soluble tea" from Ceylon. The tea exhibit is illustrated by eight photographs showing methods of cultivation and preparation for market in Ceylon, India, and China.

A collection of forty-four of the chief edible nuts of the world has been placed on exhibition. Of these twenty-four are from the eastern and twenty from the western hemisphere. Among the former are displayed coconuts. French chestnuts, almonds, pistachio nuts, longan nuts, litchis, Indian almonds, and English, Chinese, and Japanese walnuts. The American nuts illustrated include pinyon nuts, black and California walnuts, hickory nuts, pecans, chestnuts, acorns, peanuts, cashew nuts, and Brazil nuts.

Through the courtesy of Mr. O. F. Phillips of the Bureau of Agricultural Economics, United States Department of Agriculture, Field Museum has added a tray of barley standards to its exhibit of types illustrating common varieties of grains and grading factors of the official grain standards of the United States.

In 1928 label copy was written for all new exhibits, 244 labels being required for their explanation.

During the year twenty-five large photographs, representing various economic botanical subjects, have been installed in Hall 25. The enlargements were furnished by the Museum's Division of Photography, and the original prints or negatives were obtained from various sources. These illustrations portray phases of the industries connected with coffee, tea, spices, root crops, sugar, and fruit marketing.

It is a great satisfaction to observe the rapid increase in size and scientific value of the Herbarium. It is composed of more than 580,000 sheets, besides a large reserve of probably 100,000 unmounted specimens, mostly from the Old World, which are awaiting incorporation.

The plant mounter prepared for insertion in the Herbarium, by gluing and strapping, 12,330 specimens, a substantial increase over the number mounted in 1927. He also attended to the fumigation of all material received, and prepared, by strapping the greater part of the Sherff Herbarians, presented to the Massach a year ago.

The Castolina of the Herbarum, who was on horse of these to the season and the se

current material received available for study by distribution of the streets, as seen as troughted, only their proper places, and by manned new speciments and correcting wrongly named sheets already in the Herbarium cases. Because of the expectit, as motivats integral for the particles of the expectit, as motivats in pred for the particles of the expectity as motivated for the particles of the Staff or of outsides who want the Herbarium for study purposes. Due to this ready available of its speciments the Herbarium compares for orange or elements with any other large herbarium in the United States.

More than 10,000 mounted sheets, mostly from Central and South Are 110.11 Herburrons the year, thus increasing 10 sp — value In the course of the destributions of these plants through the Herburrons hundred; of sheets were determined, and the names of other specimens were Several large v. Beste to which had avoided nor a for more determined, at least in part, and placed in the European Several Rose will be useful for study purposes. It is a sheet for which the sheet of the More Main.

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sashes and other wood of the cases has been carried out in connection with this work. In Ernest R. Graham Hall and in Hall 36, nearly all the cases, and in Hall 34 and Clarence Buckingham Hall, a large number, were reinstalled in this manner during the year.

In Stanley Field Hall one case was installed; in Harlow N. Higinbotham Hall, one: in Systematic Minerals (Hall 34), fourteen cases; in Clarence Buckingham Hall, four; in Petroleums, Clays et cetera (Hall 36), thirty-six, and in Ernest R. Graham Hall, fortythree, making a total of ninety-nine cases.

In Stanley Field Hall an exhibit of some of the fossils, ores and other geological specimens collected by Assistant Curator Roy in Baffin Land and Newfoundland while with the Rawson-MacMillan Subarctic Expedition of 1927-28 was installed in a single case. From Baffin Land are shown in this case, thirty-nine specimens of fossils of Ordovician age and seven specimens of igneous rocks; from Newfoundland, thirty-six specimens, mostly trilobites, of fossils of Cambrian age, and twenty-five specimens of ores and minerals. Several colored photographs of scenes in Baffin Land and outline maps showing routes followed are included in this exhibit.

The exhibit of ores and minerals of South America collected by Associate Curator Nichols as a member of the Captain Marshall Field Expedition of 1926, which had been previously exhibited in Stanley Field Hall, was removed and distributed among the systematic mineral and ore series in Frederick J. V. Skiff Hall and Hall 34.

In Harlow N. Higinbotham Hall the beautiful rose quartz bowl contributed by Mr. R. T. Crane, Jr., was installed in the case of quartzes, and the cut emeralds, agate and vesuvianite which he presented were installed in their respective groups. Specimens presented by other donors during the year were also added to the exhibits in this hall. In order to give a more orderly arrangement. the exhibit of miscellaneous gems in the hall was exchanged in position with part of the exhibit illustrating folk-lore of gems. Thorough cleaning of the cases was carried out in connection with these changes.

In Hall 34 the work of changing backgrounds and reinstallation begun last year was continued and the work completed during the year for fourteen cases. These included two cases of the Chalmers crystal collection and twelve cases of large mineral specimens. The improvement in the attractiveness and visibility of the exhibits, as as well as in the general appearance of the hall, brought about by

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brate fossils, this work was completed. The hall was reopened to the public early in June. In order to give space at the ends of the hall for certain large groups now under construction, and to introduce some new exhibits, some changes in the arrangement of cases and bases were made. The Yorkville and South American Mastodon mounts, the cast of the Megatherium and the model of the Moa, all of which had occupied the north end of the hall, were moved to new positions near the center, space being obtained here partly by removal of the cast of Colossochelus. illustrating methods of fossilization was withdrawn from the case which it had occupied, and an exhibit comparing ancient and modern plants and animals was installed in its stead. Some new specimens were introduced into this exhibit, part of them having been kindly presented by the General Biological Supply House of Chicago. A case containing ammonites was vacated, and three cases changed in position in order to bring corresponding exhibits into juxtaposition and make room for the exhibition of the great slab of the crocodilelike reptile. Steneosaurus, acquired during the year. Several specimens obtained by the Captain Marshall Field Paleontological Expeditions to South America in 1922-26 were added to the exhibits in the cases devoted to this area. These included skeletal parts of the Pleistocene horse-like animal, Hippideum, and of the short-faced bear, Arctodus. An egg of the giant extinct bird Aepyornis from Madagascar was transferred from the Department of Zoology and placed in the case of specimens of extinct birds.

The Rancho la Brea fossils, which had previously occupied two cases, were condensed to one case, and in the case thus emptied there was installed a collection of fossil rhinoceros, tapir, tiger-cat and other remains collected in Mongolia by the Third Asiatic Expedition of the American Museum of Natural History, Field Museum cooperating. Some tusks and other remains of the Mammoth and a drawing of a restoration of the Mammoth by Mr. C. A. Corwin completed the installation of this case. In another case containing other specimens of the Mammoth and Mastodon, the superb Mammoth tusks presented by Mr. John Borden were installed.

Of the first ten mural paintings of the series being presented by Mr. Ernest R. Graham, representing typical scenes in different geological periods, prepared for the hall by Mr. Charles R. Knight, seven have been placed in final position on the walls of the hall. The subjects of these paintings are: The Chicago Coral Reef,

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Oursel and Park many Common, the Street Downster Sug-mone, Figs arming Common, The Most of Ten Source), Clark Response and Department, and The Most offer. The Street states new Martel to become position or the balls at the such but of Garball. The subject of Donaton: A Coding Sarris, The Singlerange of Life, and A line Smoot of the Intercence Pariset. Two of Make parentings and first that he was the recognition and 1000 feet.

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The large quantity of foliage required for the Calamite reconstructions has been produced also by mechanical means, and altogether the work on the material for this exhibit is so far advanced that as soon as the case for the group is built, the parts already completed may begin to be assembled, and will give a fair idea of the eventual appearance of the group. This exhibit is to be installed at the south end of Ernest R. Graham Hall.

In the paleontological laboratory a considerable amount of repairing and remounting of vertebrate fossils incident to the reinstallations in Ernest R. Graham Hall was carried on, and the work of preparing, for exhibition and study, the vertebrate fossils collected by the Captain Marshall Field Paleontological Expeditions to South America, was continued. Repairs to specimens included those of broken parts of the skeleton of the extinct bird Dinornis and of the ribs and sacrum of the mounted skeleton of the large dinosaur, Analosaurus.

Specimens newly mounted or remounted include a skull and two limbs and feet of the extinct short-legged aquatic rhinoceros, teleoceras; of both fore and hind limbs of the North American camel-like animals, Oxydactylus and Stevomylus; a skull of the large, pig-like Elotherium; a skull of the South American hoofed mammal Astrapotherium; a skull of the marine reptile Platecarpus, and a pair of lower jaws of the Mastodon.

Specimens cleaned of matrix and prepared for exhibition or study included a part of the skeleton of the large, extinct South American ground sloth, Scelidotherium; several jaws of Hippideum; a jaw of Arctotherium; a skull of Nesodon; additional parts of the skeleton of the little known tapir-like Homalodontotherium; bones of a small South American dinosaur; skulls of a new type of a large South American marsupial carnivore, and a skull four feet in length of the great ground sloth, Megatherium.

A mold and two casts of the Gladstone meteorite acquired during the year were made in this laboratory by Preparator J. B. Abbott for purposes of record and distribution to other institutions. 1.1.

The continual laboratory has been it all not instant use throughout the year. For about three months its factors were largely explying to the proportion of parts of the following asset in the continual months for the Perest of the Carbor for an Perest. For this weak it was found resonance to provide a for odd right for the book. This was accomplished by instanting a binner proposed by an electromatic and consected by a flow with the stant. A relating cap was also provided to the stanting passe of the fixed cover previously used.

Many chemical analyses and investigations were carried on inthe laboratory by Associate Curator Nich is, the rolet supertunt best glace of the quantitative analysis of the Tallot, Int. is, stone a clerate. Other investigations and a company of the content of th to the durability of a number of papers under a rectification for use in Massure publications; investigation as to the suitability of a paper beares for special use on a Museum expectation, muchination of a payment for use on the burd grounds of Museum groups; income gut, it of the nature of a planter used in this formy resulting in dismostly of the possibility of the properties of a much lossy has then then at which is had believe been obtained, promingation of the ranges of poliments in the solutions used in the Divisions of Rection is, and Protegravore; investigation of a solution used for the preservation of amount Egyptian textiles; investigation of the nature of the cristals occurring on an Item shull; analysis of the polygrafian lives to the investigation of the nature of a pottery analysis of the copper used in an absoluted five

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To you continued informing epigenesis counting of a latter, consists and would make and a places, with two places, making the spectrum time, are admit designed you you, and the party in the belongest was framed grants facilities. The properties of the linings and battens and the refitting of shelves for sixty-four upright cases was carried on here by Preparator Valerie Legault, who also installed the linings and shelves in the cases. The frameworks for three large tree trunks, eighteen feet in height, for the Carboniferous Forest group were also constructed here by Preparator Legault and several bases for mounts in Ernest R. Graham Hall were made by him.

Under the supervision of Associate Curator Nichols, a model of an oil well for exhibition in connection with the exhibit of petroleums in Hall 36 was brought nearly to completion in this laboratory. The model is six feet high, three and one-half feet long and eight and one-half inches deep. It is intended to reproduce essentially the features of a small area in the Lawrenceville, Illinois, oil district. The scale of the model is five feet to the inch. As this scale does not, however, give opportunity to show the true depth at which the oil occurs, a gap is left in the model between the surface features and that part of the model showing the oil-bearing strata.

The surface features show a derrick, pumps, engine, equipment for drilling and various accessories employed both to drill a well and to raise the oil to the surface. The strata passed through to reach the oil are shown in their relative positions, and the relative situations of the oil, gas and salt water in the oil-bearing strata are also shown. The dissimilarities of the strata are brought out by differences in color and texture in the materials used in constructing the model, and they correspond to those which actually occur in the formations passed through in the Lawrenceville district.

ZOOLOGY.—Progress in the preparation and installation of habitat groups of large mammals was unusual, probably exceeding that of any previous year. Four groups of large size were finished and are now on exhibition, as well as one group of small antelopes. Also four cases of large mammals were added to the classified exhibits in George M. Pullman Hall.

Of outstanding interest was the initiation of installations of Asiatic mammals in William V. Kelley Hall. Case construction for one-fourth of this hall was completed, and two important groups were put in place. These were the groups of Marco Polo's sheep and the Asiatic ibex, both prepared from specimens obtained by Colonel Theodore Roosevelt and Kermit Roosevelt on the James Simpson-Roosevelts Asiatic Expedition of Field Museum.

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The group of the take, attroops one in two has possed to be very attractive. A part of each security are not supply than just rathering and place with a trace least, each proof proof of the University and other parties proof proof of the territories of each other parties of matter Attract. In the hall of American mammal habitat groups, a group of glacier bears was installed in the last remaining space in the eastern half of the hall, thus bringing to completion its first major unit which now includes twelve large groups of high quality. The glacier bear group has for a setting the picturesque glacier-bound mountains of the Alaskan coast. An old female bear is shown with her three cubs, the mother lying down by an alder bush with her eyes watchfully devoted to the youngsters, one of which is curled up beside her, while the others are playfully perched on nearby rocks. The group was prepared by Taxidermist C. J. Albrecht.

In George M. Pullman Hall several important additions and improvements were made to the classified exhibit of hoofed mamals. A case of American mountain sheep shows the Canada sheep or Rocky Mountain bighorn, the Lower California sheep, the Stone's sheep of northern British Columbia, and the Alaskan sheep or Dall's sheep. These are variously posed on a single base of artificial rockwork.

Another new case in George M. Pullman Hall is devoted to two fine specimens of the European red deer, presented to Field Museum by Lord Astor of England. A full grown stag with fully developed antlers is here posed on a natural base, with a young male of the abnormal type known in Scotland as a "cromie." Tufts of Scotch heather are seen at their feet, and the whole effect is very pleasing. The specimens were mounted by Taxidermist Leon L. Pray.

Further new features in the systematic exhibit of mammals are single specimens of the rare and peculiar giraffe-like mammal known as the okapi, and a large bull mountain nyala, each of which occupies an entire case. The okapi was secured by Mr. Edmund Heller on the Captain Marshall Field Central African Expedition, and has been carefully prepared by Taxidermist C. J. Albrecht.

Reinstallation of five screens of mammals was carried out in Hall 15, and all old style cases were eliminated from this hall.

In Hall 21 a case of American ducks was installed with sixty-nine specimens belonging to forty species, representing a practically complete collection of this group of birds. A pair of the extinct Labrador ducks is shown, the male being in replica, because the actual specimen possessed by the Museum is too valuable to risk remounting. Six specimens were added to the case of diving birds and gulls.

Two cases of fishes were placed in Hall 18 to occupy the remaining space in the east half of this hall. The species shown are representative food and game falses of the Gulf of Mea...... One case is deveted
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The exhibits of reptiles and amphilians, for which they material has been assumining, were prestly improved by the installation of two tea cases of the Astype in Half 18. One of these contains factors.

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The paintings of Abyssinian birds and mammals by the late L. A. Fuertes were transferred from Stanley Field Hall to Hall 21, and a part of them removed to smaller cases. Duplicate or outworn material, numbering 501 mounted birds and sixty-one mounted mammals, was disposed of.

Five more large groups of mammals were in various stages of preparation at the close of the year. These are the Indian rhinoceros, Alaskan brown bear, polar bear, South American swamp deer, and African cony or dassie. A case of waders and shore birds for the systematic exhibit of American birds was nearing completion.

Progress was made in storing, preparing, and caring for the unusual amount of material recently received in raw condition from expeditions. The entire collection of large mammal skins was overhauled and rearranged, and superfluous specimens were eliminated. The skin dresser was occupied with much fresh material, and in addition 131 skins were dressed by outside agencies. Skulls of mammals to the number of 1,375 were cleaned under contract, and 987 by the Museum osteologist, making a total of 2,362 cleaned.

Rearrangement of the reference collections of mammals and birds was carried out so far as available cases and drawers would permit. Six of the new metal cases are now in full use in the Division of Mammals and eight in the Division of Birds. During recent years, incoming material has been given temporary storage in scattered places wherever space could be found. This condition is now partially relieved and, at least in certain groups, all material of one kind may be found together. The trays in the new cases have been supplied with metal label holders in which labels have been placed showing the contents of each tray and thus greatly facilitating the consultation of the specimens.

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

Sixteen years ago, in 1912, through the generosity of Mr. N. W. Harris, the Museum added this Department. Its function is to extend the work of the Museum into the schools of Chicago by delivering to them portable cases containing natural history and economic exhibits.

Since that time 1,070 cases have been prepared. Fifty of these were completed in 1928.

During these sixteen years there has been a revolutionary advance in methods of preparing and modes of exhibiting natural history



THE LIBRARY

material. This Department has kept pure with that advance in all its phases. The cases proposed in recent years have one-hop fitted backgrounds and foregrounds, perceiving a complete out-and extrage for the specimens displayed. Like the larger statement ones in the Museum, they represent an almost perfect planes of the subject as it appears in nature. Although the proposation of such cases is made recent proposations of such cases in material mode introduced, and makes greater domain in the time of the proposations. The production in numbers of new cases the been make taxed.

The cases are prepared with every request for their prealest possible durability. Considering the very frequent transportation with inevitable changes of temperature and burnelity which they are large, and the almost constant handling by chiltren in the whole the breakage has been very small. In 1925 repairs were made to 200 rasss, and every case was given a freeway's respection and cleaning

The regular service of two cases to each school, charged carry two weeks, has been maintained for 402 institutions. Of this number 182 are schools: 371 of them public, five private, five Roman Catholic. as i one Latheran. The other institutions are oght Y. M. C. A's . five branch hi rance, three community centers, one boy's club, one hapital, one orghinage, and one boy's detention hence. For the sufficies variation period forty-three cases were loaned for display at Navy Pier, twelve to the Junior Department of the Art Inand twelve to Camp Algoriquin, a camp for Chicago children seesly futuries. Cases were shapped out of town to metitutions - f has two to the Nashville Museum of Art, two to the Children's Married to St. Presid, Missouri, two to the Suffice Wisson or Mineral, Day to the Chinage, Roots Works and South South Stations. I stayley in South Bond, and ten, by the request of the Direct of of U. H. n. is Department of Conservation, to the Eline's State Fair at The Course Design of the Charles Service Servi name travel and in make a Park! Manage of Colors or the Source national Live Stock Expendion of the Union Stock Vacua, Stock effectively reading facusarily of solid loves palms.

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such study. The value of this type of research has been recognized by other schools of art, and the plan followed in the work has been adopted by other museums and kindred institutions.

Several hundred students, both from beginners' and advanced classes in the Art Institute, participate in these studies. The Art Institute provides the instructors, and Field Museum makes available its study collections, as well as the publicly exhibited material, for sketching and research. Much meritorious pictorial and design work has been produced by the students in these classes.

DIVISION OF PUBLIC RELATIONS

The attention of the public has been drawn to Field Museum's activities, through publicity in the daily press of Chicago, and the press of the entire United States, to a greater extent during 1928 than in any previous year. Also, the more important news concerning the Museum has been given world-wide circulation by international news agencies.

In addition to newspaper publicity, the Museum has received attention in important periodicals of various kinds; it has benefited from advertising, given as in past years without charge, through the generosity of those in control of various advertising media; and it has received further publicity through radio broadcasting and in motion picture newsreels. The Museum's own direct advertising efforts, through distribution of direction folders and other literature designed to attract more visitors from among both local residents and strangers in the city, have been continued as in past years.

Newspaper Publicity.—The Division of Public Relations released a total of 349 news stories during 1928, or an average of more than six each week. Copies of these stories were furnished to the seven major daily newspapers of Chicago; to some sixty community and neighborhood papers published in the city; to more than fifty of Chicago's foreign language newspapers; to some fifty suburban newspapers covering all the principal suburbs, cities and towns within a fifty-mile radius of Chicago; and to all the principal national and international news agencies.

Many of these stories were accompanied by photographs, prints from 261 negatives having been released by the Museum, copies of each of these being sent to a list of twenty-one newspapers and news photograph agencies, through which hundreds of additional copies were distributed to newspapers all over the country. The Lave levels expension not becomed by templateds soft graviuse sections

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The news stories rate of from stems of fifth words of room, to full eclumn articles, the two-thirds of a column. I have been also protected to record Change neespapers and a set and the majerity of the se received extensive space in papers for all the control in many cases newspaper staff writers have expanded to one to cases into full page feature articles. Many Massam a trades reported in the press have drawn editional councit both in Chauge papers and the papers of many other cities

Paperally potable publicity was that given the Massics by the Sunday Pribace on the color page of its retornshare section (m. March 11 the entire front color place was done test to reproduce a three of the striking habitat groups in the exhibits of the Deports next of Loberty. This was followed by a series of ville potate. of material in N. W. Harris Public School Extension cases, published on several Sundays during the spring. On the Sun my before Thanks grant & a full place was devoted to a reproduction in a lets of the Museum's habitat group of wild turkeys. The Museum terrby estands to the publishers of the Indune, to Mr. John Almon, Sur the ent r, and to Mr. Godfrey Luncherg, c hr photographer, its thanks for their limit statement which resulted in giving the Misseuti Coestremely space and offer the pulsida

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Indicating the extent of the newspaper publicity received, the records show that an average of nearly 1,600 clippings of articles mentioning the Museum are being received each month. As no complete coverage of even the English language newspapers is available, and certain groups such as foreign language papers are not covered at all by the clipping services, this number represents only a part of the space given the Museum. The highest monthly receipt of clippings was in September, with 2,822. The total number of clippings for the year was 19.105.

Publicity in Periodicals.—Many special articles on the Museum and its activities, some prepared at the Museum on the request of editors, and others written by outside writers, usually illustrated with photographs furnished by the Museum, have appeared in general and popular magazines, trade journals, scientific publications, and other periodicals. Among the more important publications in which this material has appeared are Scientific American, Chicago Commerce, Popular Mechanics, Science, Popular Science, Americana Annual, International Year Book, Art and Archaeology, Science News Letter, Museums Journal (London), and American Year Book.

ADVERTISING.—As in past years, the Museum has been fortunate in having a wide variety of advertising media generously placed at its disposal without charge.

Particularly notable was the action of the Chicago Evening American, which, in October, had prepared and gave space to a full page advertisement about the Museum, and then at its own expense bought full pages in other Chicago newspapers for republication of this advertisement. Carrying the heading, "Field Museum—where stay-at-home Chicago sees the world," this advertisement attracted a great deal of attention and stirred much public interest. Grateful acknowledgement is hereby made to the Evening American and its publisher, Mr. Herman Black.

The Chicago Rapid Transit Company, and associated interurban lines, distributed 50,000 Field Museum descriptive folders, and again kindly displayed in Elevated Lines stations a series of colored posters of Museum exhibits. The Chicago, North Shore and Milwaukee Railroad again allotted space throughout the year to Museum exhibits and lectures in its "This Week's Events" posters displayed at all stations between Chicago and Milwaukee. The Chings Suffice I, as a time prepared of precious peace by penting at the set of one and organizing in the street cars, where the set of period according to Many. The Elmon Control Remark and the Control Rampor at the

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Newsheels.—Motion pictures also brought Field Museum activities before the public. These included newsreels taken by International Newsreel. Kinograms, Chicago Daily News. Pathé and special films taken by the Chicago, South Shore and South Bend Railroad.

PAMPHLETS.—Special publicity was given the work done among school children by the Museum in a pamphlet prepared by the Division of Public Relations entitled "Field Museum and the Child." in which the activities of the N. W. Harris Public School Extension Department and the James Nelson and Anna Louise Raymond Public School and Children's Lecture Division are outlined. This pamphlet was widely distributed among school officials, principals, teachers, Members of the Museum, and other persons likely to be interested in this subject.

The Field Museum folder, "One of the World's Treasure Houses,"
was revised up to date and a new edition published, and a large
amount of general editorial work was done by the Division of Public

Relations.

DIVISION OF PRINTING

During 1928 the output of the Division of Printing has again greatly exceeded that of previous years. This is especially true of exhibition labels, for which a special need arose in order that certain halls on the ground floor with anthropological exhibits could be opened to the public.

No noteworthy change or increase in the equipment was made during the year, but in order that the composition on publications could be advanced in a satisfactory manner, a monotype operator for a night shift was added to the staff on July 1. As a result of this addition excellent progress was made during the past six months on the composition work for regular publications, guides, leaflets, childrens' stories, and other jobs requiring an unusual amount of typesetting.

The following publications were printed and bound during the period under review:

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Publication 246-Contents and Index to Volume XIV			1.000
Publication 247-A New Crocodile from New Guinez.			1.021
Publication 248-Annual Report of the Director for 1927			3.800
Publication 249-The Marine Fishes of Panama			1.580
Publication 250-A New Genus of Aquatic Rodents			1.017
Publication 251-Reptiles Collected in Salvador			1.017
Publication 252-Notes on South American Caimans			1.010
Publication 253-The Prehistory of Aviation			1.523

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ROENTGENOLOGY.—Considerable publicity was given to the X-ray work of the Museum in 1928. As a result, international attention has been attracted to the findings made by the Division of Roentgenology.

Much careful experimentation has been devoted toward perfecting a technique that will adapt itself to the penetration of the
unusual substances that have been submitted to the X-ray laboratory for study. In mummy packages, for instance, to obtain a
shadow of the skeletal structure of the body, the bandages and
wrappings, and often even the coffin must be penetrated also. The
anthropological specimens that have been X-rayed are all mummies
contained in their original wrappings, and development of these
films brought many surprises.

In the mummy of a child, for instance, it was found that the arms had been removed and the legs broken, presumably to make the body fit a coffin too small for it. From all outward appearances this package seemed to contain the entire body of the child. The original wrappings have never been disturbed, and this mutilated condition was not even suspected until the X-ray film was made.

X-ray examination of another mummy, that of an adult Egyptian disclosed the fact that the arms and torso were missing. The head was suspended to the pelvic region by a board, and the cavity normally occupied by the missing parts was filled with some radiolucent material that casts almost no shadow on the X-ray film.

Pathological conditions, identical with present-day ills such as arthritis, genu valgum, scoliosis, et cetera, are clearly defined on some of the films. These findings have been corroborated by Dr. Cora A. Matthews of the Cook County Hospital.

Life-size prints of the above described X-ray films have been placed on exhibition in Hall J. These prints are in close proximity to the original mummies so that interesting comparisons can be made.

PHOTOGRAVURE.—Following is a list of the photogravure illustrations and postal cards completed during the year 1928:

	Number of print
Publication illustrations.	133,500
Leaflet illustrations	70,000
Design Series illustrations.	63,000
Guide covers	20,000
African Hall Guide illustrations	52,500
Posters	1,900
Postal cards in series.	195,000
Postal cards (general)	96 000
Special (membership headings).	1.375
Total	633.275

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ATTENDANCE STATISTICS AND DOOR RECEIPTS

FROM JANUARY 1, 1928 TO DECEMBER 31, 1928

Total attendance	137,607	1,023,627
Free admissions on pay days: Students. School children. Teachers. Members.	11,031 50,525 2,677 1,295	
Admissions on free days: Thursdays (52). Saturdays (52). Sundays (53).	126,579 238,561 455,352	
Highest attendance on any day (August 19, 1928)	20,894 146 9,000 2,796 658	
Number of guides sold Number of articles checked Number of picture postal cards sold	8,282 19,428 132,877	
Sales of publications, leaflets, handbooks and photographs	\$4,087.42	

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THE N. W. HARRIS PUBLIC SCHOOL EXTENSION STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1928

Interest and dividends on investments	20,345.98 20,809.76
Excess of expenses over income\$	463.78

STANLEY FIELD PLANT REPRODUCTION FUND

STATEMENT OF INCOME AND EXPENSES FOR THE YEAR 1928

Balance, December 31, 1927	186.14 17,322.00
Operating expenses—1928.	17,508.14 16,857.66
Balance, December 31, 1928	650.48

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12 archaeological objects: 10 decorated pottery sherds, 1 clay tobacco-pipe, 1 lot of detached bones—Mound seven miles from Manito, Illinois (gift).

FIELD, HENRY, Chicago.

7 archaeological objects: 5 tubular beads, 1 cylinder seal, and 1 animal carving—Jemdet Nasr, Mesopotamia (gift).

FIELD (WALTER) COMPANY, Chicago.

piece of decorated tapa—Samoa (gift).

FIELD MUSEUM OF NATURAL HISTORY.

- Collected by Ralph Linton, leader of Captain Marshall Field Expedition to Madagascar:
 - 1,527 objects: wood carvings, brass castings, iron lamps, costumes, blankets—Bara, Tanala, Betsileo, and Imerina tribes, Madagascar.
- 130 objects of basketry, wood carvings, fur cloaks, weapons, beadwork—mostly Basuto, South Rhodesia, South Africa. Collected by Dr. Neville Jones. Captain
- Marshall Field Expedition to Madagascar: About 100 paleolithic type speci-
- mens—South Africa.

 Collected by E. S. Riggs, Captain
 Marshall Field Paleontological
 Expedition to Argentina and
 - Bolivia, 1926-27: 2 prehistoric potsherds—Tarija, East Bolivia, South America.
- Collected by J. Eric Thompson, leader of Captain Marshall Field First Archaeological Expedition to British Honduras:
 - About 130 archaeological objects of pottery, stone, jade, and shell— Maya, British Honduras, and Honduras.
- Collected by W. D. Strong, anthropologist of Rawson-MacMillan Subarctic Expedition of Field Museum, 1927-28:
 - About 849 archaeological and ethnological objects: stone, bone, and household implements, soapstone

- and ivory carvings, clothing, weapons, and ceremonial material; 34 skeletal remains—Eskimo and Naskapi, Labrador and Baffin Land.
- Collected by Henry Field, leader of Captain Marshall Field First and Second Archaeological Expeditions to the North Arabian Desert:
- About 15,021 objects of prehistoric flint implements and flakes, stones bearing tribal marks, and one inscribed door-lintel—North Arabia
- Collected by Henry Field, leader of Captain Marshall Field Archaeological Expedition to Western Europe:
 - About 10,100 objects of prehistoric flint and bone implements, casts from French National Collection, and casts of prehistoric human remains—France, Germany, and England.

Purchases:

- 3 objects of beadwork: 1 beaded blanket stripe, 1 pair of beaded moccasins, and 1 pipe-bag beaded with quilled fringe—Plains Indians, Dakota, from Mrs. Laura F. Stewart, collector.
- 1 copper hoe of native "Indian" copper—Arizona, from P. S. Bentz.
- 17 ethnological objects: articles of clothing, household utensils, and snowshoes — Penobscot Indians, Maine, from Dr. Frank G. Speck, collector.
- 1 pair of emu feather slippers aborigines, West Australia, from J. F. Connelly, collector.
- 30 ethnological objects: clothing, knife, Jew's harp, tobacco-pipes, drinking-cup, and spoon—Taiyal, Paiwan, Bunun, Ami, and Tsou tribes, Formosa, from Gordon T. Bowles, collector.
- 1 old piece of decorated tapa— Hawaii, from Mrs. Emily Wallace.
- FIELD MUSEUM-OXFORD UNI-VERSITY JOINT EXPEDI-TION (CAPTAIN MARSHALL FIELD FUND).
 - About 24 fragmentary skulls and about 1,500 archaeological ob-

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- ALEXANDER, MRS. H. H., Avalon, California.
 - 1 herbarium specimen (gift).
- ARCHERS COMPANY, Pinehurst, North Carolina.
 - 3 wood specimens and 1 herbarium specimen of Taxus and Torreya (exchange).
- ATWOOD, CHARLES E., Chicago. 29 samples of tea (gift).
- BALL, DR. C. R., Washington, D. C. 12 herbarium specimens of willows from Minnesota and North Dakota (gift).
- BARREL, GEORGE, Boston.
 - 1 fruiting specimen of Peruvian mahogany (gift).
- BASNETT, DOUGLAS, Chicago.

 14 hand specimens of woods from
 Brazil and Chile (gift).
- BAYER, JACOB, LUMBER COM-PANY, New York City. A black cherry board (gift).
- BELIZE ESTATE AND PRODUCE COMPANY, Belize, British Honduras.
 - A mahogany board (gift).
- BENKE, H. C., Chicago.
 - 521 herbarium specimens, chiefly from Illinois (gift).
- BLETSCH, W. E., Highland Park, Illinois.
 - 18 hand samples of tropical woods (gift).
- BOMBAY NATURAL HISTORY SOCIETY, Bombay, India. 6 samples of vegetable oils (gift).
- BREMER, MISS MARY, Crown Point, Indiana. 9 herbarium specimens from Indiana
 - (gift).
- BRIGNOLES BOTANIC STATION, Brignoles, France. 19 herbarium specimens and packets
- of seeds (gift).

 BRITISH FOREST SERVICE, Belize,
 British Honduras.
 - 1 specimen of the inflorescence of a palm (gift).

- BUREAU OF STANDARDS, Washington, D. C.

 9 photo-micrographs of fiber (gift).
- CALDERON, DR. SALVADOR, Direccion General de Agricultura, San Salvador, Salvador.
 - 106 herbarium specimens from Salvador (gift).
- CALIFORNIA ACADEMY OF SCI-ENCES, San Francisco.
 - 415 herbarium specimens, chiefly from Lower California (exchange).
- CLEVELAND MUSEUM OF NAT-URAL HISTORY, Cleveland, Ohio.
 - 18 herbarium specimens from Ohio (gift).
- CLYNES, M. R. and N. E. BECKER, Chicago,
 - 1 wood specimen of Osage orange (gift).
- COLTON, MRS. THERON, Chicago. 1 herbarium specimen from Illinois (gift).
- COMMERCIAL SOLVENTS COR-PORATION, Terre Haute, Indiana.
 - 10 samples of corn products (gift).
- CONSERVATOR OF FORESTS, Rangoon, Burma. 176 wood specimens (gift).
- CRANE AND COMPANY, Dalton, Massachusetts. 5 specimens of material employed in
 - paper manufacture (gift).
- DAHLGREN, DR. B. E., Chicago.

 A branch of Honduras mahogany
 and a collection of aroid and other
 tubers from Trinidad (gift).
- DAHLGREN, MRS. B. E., Chicago.

 1 herbarium specimen from California (gift).
- DEAGAN, J. C., INC., Chicago. A board of Honduras rosewood (gift).
- DIRECCION GENERAL DE AGRI-CULTURA, Guatemala City, Guatemala.
 - 28 herbarium specimens from Guatemala (gift).



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- MARTINEZ, PROFESSOR MAXI-MINO, Mexico City, Mexico.
 - 1 herbarium specimen from Mexico (gift).
- NEW YORK BOTANICAL GAR-DEN, New York City.
- 6 herbarium specimens (exchange).
- NEW YORK COCOA EXCHANGE, New York City.
- 8 samples of cacao (gift).
 PEARSON, G. H., AND SON HARD-
 - York City. 29 wood specimens (gift),
- PHILLIPS, O. F., Chairman, Board of Review, Chicago. A tray of barley standards (gift).

WOOD COMPANY, INC., New

- PLATANIA, PROFESSOR GAE-TANO, Catania, Italy. 3 citrus boxes (gift).
- PURPUS, DR. C. A., Zacuapam, Mexico.
 - 72 herbarium specimens from Mexico (gift).
- REKO, DR. BLAS P., Indé, Durango, Mexico. 42 herbarium specimens from Mexico
- RIDGWAY, ROBERT, Olney, Illinois, 332 herbarium specimens from Illi-
- nois (gift).

 ROYAL BOTANIC GARDENS, Kew,
 - England. 647 herbarium specimens from Co-
- lombia (exchange).

 RUTH, PROFESSOR ALBERT, Fort
- Worth, Texas.

 34 herbarium specimens from Texas
- (gift).
 ST. JOHN, DR. HAROLD, Pullman,
 - Washington.
 1 herbarium specimen (gift).
- SHERFF, DR. EARL E., Chicago. 85 herbarium specimens (gift).
- SMITH, HURON H., Milwaukee, Wisconsin.
 - 1 herbarium specimen (gift).

- STEVENSON, NEIL S., Belize, British Honduras.
 - 8 specimens of palms from British Honduras (gift).
- STORK, PROFESSOR H. E., Northfield, Minnesota.
- 1 herbarium specimen from Costa Rica (gift).
 SUTHERLAND, THOMAS G., Chi
 - cago.
 A police baton made from lignum
- vitae (gift).
- TEHON, L. R., Urbana, Illinois. 103 herbarium specimens from Illinois (gift).
- UNITED STATES DEPARTMENT OF AGRICULTURE, Bureau of Plant Industry, Washington, D. C.
 - 9 herbarium specimens (exchange).
- UNITED STATES NATIONAL MU-SEUM, Washington, D.C.
 - 8,805 herbarium specimens (exchange).
 UNIVERSITETETS BOTANISKE
- MUSEUM, Copenhagen, Denmark. 276 herbarium specimens from tropi-
- cal America (exchange).

 WARREN, S. D., COMPANY, Boston.
 8 specimens of material used in paper
- making (gift).
 WIELAND, PROFESSOR G. R., New
 - Haven, Connecticut.

 1 ground section of Cycadeoides (gift).
- WITTE MEMORIAL MUSEUM, San Antonio, Texas.
 - 465 herbarium specimens from Texas
- YALE SCHOOL OF FORESTRY, THROUGH PROFESSOR SAMUEL J. RECORD, New Haven, Connecticut.
 - 371 herbarium specimens from tropical America (gift); a log of caicque bloodwood (gift); 1,501 wood specimens (exchange); a bag made of pita floja, latex of the Guatemala cow tree, seeds of Astrocargum, wood specimen of pink ivory (gift).

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- 45 specimens of fragments of shells of eggs of Protoceratops and Struthiolithus—Mongolia.
- Collected by Captain Marshall Field Paleontological Expedition to Alberta, Canada, 1922:
 - 1 trunk of fossil tree Alberta, Canada.
- Collected by Captain Marshall Field Paleontological Expedition to Argentina and Bolivia, 1922-24:
 - 48 specimens fossil invertebrates— Patagonia Beds, Argentina.
- Collected by Captain Marshall Field Second Paleontological Expedition to Argentina and Bolivia,
 - 144 specimens fossil vertebrates and invertebrates — Tarija, Bolivia and Province of Buenos Aires, Argentina.
 - 171 specimens fossil vertebrates— Catamarca, Argentina.
- 21 specimens fossil Devonian invertebrates—Austral fauna of Bolivia. Collected by H. W. Nichols:
- 2 specimens soils—Antioch, Illinois.

Purchases:

- 1 iron meteorite—Gladstone, Australia.
- 1 iron meteorite-Houck, Arizona. Section of iron meteorite-Duchesne
- County, Utah.

 Skeleton of Teleosaur in matrix—
 Holzmaden, Württemberg, Ger-
- many.

 1 specimen modern crinoid—Sagami
 Bay, Japan.
- 2 specimens fossil echinoids—Pontotoc, Mississippi.
- FIELD, MRS. STANLEY, Chicago.

 1 specimen claw of fossil sloth—
 Sarasota, Florida (gift).
- GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago.
 - 9 specimens modern plants and animals—various localities (gift).
- GLENDINNING, R. J., Salt Lake City, Utah.
 - 1 specimen gilsonite—Utah (gift).
- GOLDBLATT, EDWARD, Chicago.
 1 specimen fossil fish—Fossil, Wyoming (gift).

- GRONEMANN, C. F., Elgin, Illinois.

 1 specimen peat from sphagnum--
- Gilbert's, Illinois (gift).

 HALVORSEN, E. E., Templeton, Cali
 - fornia.

 2 specimens fossil pelecypods—Cali-
 - fornia (gift).

 3 specimens fossil oysters—Califor-
 - nia (gift).

 1 specimen petrified wood—California (gift).
- HARRISON, C. M., Amory, Mississippi.
 - 16 specimens bentonite and associated rock—Amory, Mississippi (gift).
- HESTER, J. P., Flagstaff, Arizona.

 1 specimen fossil amphibian footprints—Cameron, Arizona (gift).
- 15 photographs (gift).
 HIGGINSON, MRS. CHARLES M...
- Kenilworth, Illinois.
 3,240 specimens minerals—various localities (gift).
- HOLDERNESS, WILLIAM T.,
 - Chicago.

 1 specimen marcasite concretion—
 southern Illinois (gift).
- ILLINOIS STATE MUSEUM, Springfield, Illinois.
 - Portion with crust of the 46-pound individual of the Tilden meteorite, and a cast of the entire individual—Tilden, Illinois (gift).
- KINSER, B. M., Port Stanton, Canada.
 - 21 specimens Ordovician fossils— Port Stanton, Canada (gift).
- LANG, JOHN, Jacksonville, Texas.
 - limonite concretion—Jacksonville, Texas (gift).
- LAW, D. H., Dixon, Illinois.
 - 1 specimen of root of fossil tree— Elsie, Kentucky (gift).
- LAYBOURNE, E. G., Chicago.
 - 3 specimens fossil gastropods— Colorado (gift).
 - 1 specimen fossil pelecypod—Colorado (gift).

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- SEKERA, JOHN, Chicago.
 - 1 specimen chalcedony South Dakota (gift).
- SHANAHAN, W. F., Chicago,
 - 1 specimen cup coral-Decatur. Illinois (gift).
- SIEGFRIEDT, DR. T. C. F., Red Lodge, Montana.
 - 2 specimens zonolite Montana (gift).
- SOMOGYI, JULIUS, Chicago. 1 specimen Lepidodendron-(gift).
- SOSNOVEC, V., St. Louis, Missouri.
- 8 specimens minerals-St. Louis, Missouri (gift).
- 7 specimens concretions-St. Louis, Missouri (gift).
- STATE GEOLOGICAL SURVEY. Urbana, Illinois.
 - 3 specimens oil sands-Lawrenceville, Illinois (gift).
- THOMAS, MRS. THEODORE, Cambridge, Massachusetts.
 - 1 specimen polished labradorite-Labrador (gift).
- TRUESDELL, DR. G. W., Taylor Falls, Minnesota.
 - 1 specimen conglomerate containing Lingula-Taylor Falls, Minnesota (gift).

- UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.
 - 11 specimens potash salts-Texas and New Mexico (gift).
- UNIVERSITY OF CHICAGO, Chicago.
 - Skull and jaws of Poebrotherium wilsoni-Wyoming (exchange).
 - Skeleton of Oreodon culbertsoni-Nebraska (exchange),
- VAUGHAN, DR. R. V., Avalon, California.
 - 1 specimen calcareous tufa-Catalina Island, California (gift).
- VEDDER, MRS. W. J., Chicago.
- 1 specimen fossil ammonite-New Mexico (gift).
- WEIS, MISS LILLIAN MARY, Chicago.
 - 1 specimen sphalerite and calcite-Cumberland, England (gift). 1 specimen silver and copper-Lake
 - Superior (gift). WIEDENIG. JOSEPH A., Chicago.
- 1 specimen covellite-Upper Two
 - Medicines, Montana (gift). 1 specimen concretion-Upper Two Medicines, Montana (gift).
- WOOLLEY, S. W., Osborne, Kansas. 3 specimens invertebrate fossils-Osborne, Kansas (gift).

DEPARTMENT OF ZOOLOGY

- ANDERSON, A. N. P., Los Angeles, California.
 - rattlesnake skin-Brownsville, Texas (gift).
- APPLEBAUM, A. A., Chicago. 1 tarantula-Honduras(?) (gift).
- BACKES, PETER, Wheaton, Illinois, 1 barn owl-(gift).
- BERTONI, A. W., Asuncion, Para-
 - 1 flycatcher-Puerto Bertoni, Paraguay (gift).
- BORDEN, JOHN, Chicago.
 - 4 walrus tusks-Alaska (gift).
 - 2 ribbon seal skins, 1 skull-King Island, Alaska (gift).

- BOOTH FISHERIES COMPANY, Chicago.
 - 1 inconnu-Alaska (gift).
- BRODKORB, PIERCE, Evanston, Illinois.
 - 132 birdskins-various foreign localities (exchange).
- BUTTLES, MRS. B. E., Chicago. 1 albino bluejay-Chicago (gift).
- CARLSON, MRS. MARIA L., Mount Greenwood, Illinois.
 - 1 short-eared owl-Mount Greenwood, Illinois(?) (gift).
- CAUBLE, F. B., Greenfield, Indiana. 1 turtle, 1 moth caterpillar-Orange County, Indiana (gift).

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Purchases:

- 3 ducks-Wainwright, Alaska.
- 1 hird-British Guiana. 1 snake-Gainesville, Florida,
- Santo Domingo.
- 18 lizards, 2 snakes-Haiti and mammal skin and skeleton-Madagascar.
- 1 mounted raccoon-Michigan.
- 96 birds-South America.
- 5 snakes, 2 lizards-various localities.
- 2 birds-Oregon.

FIELD, STANLEY, Chicago.

- 1 bronze group, "At Bay," by Carl E. Akeley (gift).
- FORCE, MISS EDITH R., Tulsa, Oklahoma.
 - 9 frogs-Tulsa County, Oklahoma (gift).

FRANZEN, ALBERT, Chicago.

- 1 lot salamander eggs-Manitowish, Wisconsin(gift).
- 1 eel pout-Chicago (gift).
- FRIESSER, JULIUS, Chicago. 1 moth-Chicago (gift).

GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago.

- 1 hermit crab-Kev West, Florida
- (exchange). 1 salamander—Imboden, Arkansas (gift).
- 1 snake-Florida (gift).

GERHARD, W. J., Chicago.

- 2.128 insects-northern Indiana and northern Illinois (gift).
- GILLETTE, WILLIAM J., San Diego, California.
 - 1 bird-San Diego, California (gift).
- GRANT, C. P., Chicago. 10 bird lice-Chicago (gift).
- GRONEMANN, CARL F., Elgin,
- 9 salamanders, 5 lizards, 4 snakes-Hanover, Germany (gift).
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 - Illinois. 1 woodchuck skull-London Mills. Illinois (gift).
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- LYON, DR. M. W., South Bend,
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burg. Department of Forests and Waters.

Harrisburg.

Engineers' Society of Western Pennsylvania, Pittsburgh. Franklin Institute, Philadelphia. Lehigh University, Bethlehem. Pennsylvania Museum and School of Industrial Art, Philadelphia. Philadelphia College of Pharmacy,

Philadelphia Philadelphia Commercial Museum, Philadelphia.

Reading Public Museum and Art Gallery, Reading. Sullivant Moss Society, Pittsburgh.

University of Pennsylvania, Philadelphia.

University of Pennsylvania, Mu-seum, Philadelphia. Wagner Free Institute of Science,

Philadelphia. Wistar Institute of Anatomy and Biology, Philadelphia.

PHILIPPINE ISLANDS:

Bureau of Education, Manila. Bureau of Science, Manila. Department of Agriculture and Vatural Resources, Manila. Department of Interior, Manila.

SOUTH DAKOTA:

State School of Mines, Rapid City.

TENNESSEE:

Agricultural Experiment Station. Nashville.

TEXAS:

Agricultural Experiment Station. College Station. Baylor University, Waco. Scientific Society, San Antonio.

University of Texas, Austin.

UTAH:

Agricultural Experiment Station. Logan. University of Utah, Salt Lake City,

VERMONT:

Agricultural Experiment Station. Burlington.

VIRGINIA

Geological Survey, Charlottesville. State Library, Richmond. University of Virginia, Charlottesville.

WASHINGTON:

Agricultural Experiment Station, Seattle.

Department of Conservation and Development, Division of Geology, Olympia Mountaineer Club, Seattle,

Pacific Northwest Bird and Mammal Society, Seattle. Puget Sound Biological Station,

Seattle. Washington University, Seattle. Washington University, Historical Society, Seattle.

WASHINGTON, D. C. American Association for the Advancement of Science.

American Association of Museums. American Mining Congress. Archaeological Institute of America. Carnegie Endowment for Interna-

tional Peace (gift). Carnegie Institution of Washington

(gift) Library of Congress. National Academy of Science. National Parks Bulletin. National Research Council. Pan American Union. Science Service. Smithsonian Institution. Tropical Plant Research Foundation. United States Government. United States National Museum.

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ARTICLES OF INCORPORATION

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, Secretary of State

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of thiols, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State,

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

> W. H. HINRICHSEN. Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SIR:

SECRETARY OF STATE:

- We, the undersigned citizens of the United States, propose to form a cor-poration under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:
- The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO,"
- 2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science and History.
- 3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.
- 4. The following named persons are hereby selected as the Trustees for the
- first are the containing named persons are necessy selected as a containing named persons are necessary first and a containing named persons are necessary for the containing named persons and persons and persons and persons are necessary for the containing names when the persons are necessary for the containing named persons and persons and persons are necessary for the containing named persons are necessary as a first person and person are necessary as a first person are necessary as a first person and person are necessary as a first person are necessary as a first person and person are necessary as a first person are necessary as a first person and person are necessary as a first person and person are necessary as a first person are necessary as a first person and person are necessary as a first person and person are necessary as a first person are necessary as a first person and per
- The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

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AMENDED BY-LAWS

JANUARY 1929

ARTICLE I

MEMBERS

SECTION 1. Members shall be of eleven classes, Corporate Members, Honorary Members, Patrons, Benefactors, Fellows, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Life Members, Sustaining Members, and Annual Members.

Section 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty dollars (320.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000,000) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Any person contributing the sum of Five Thousand Dollars (\$5,000.00) in cash or securities to the funds of the Museum, may be elected a Fellow of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in said Fellowship.

SECTION 7. Any person paying into the treasury the sum of Five Hundred Dollars (\$800,00), at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 8. Any person paying into the treasury of the Museum the sum of one hundred dollars (\$100.00), at any one time, shall upon the unanimous vote of the Board, become an Associate Members. Associate Members shall be entitled to: tickets admitting member and members of family, including non-resident home guests; all publications of the Museum, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Life

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ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President. dent shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

The Treasurer shall be custodian of the funds of the Corporation except as hereinafter provided. He shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely The President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SECTION 3. The Treasurer shall give bond in such amount, and with such

sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of Field Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance

SECTION 2. There shall be four scientific Departments of the Museum-Anthropology, Botany, Geology and Zoology; each under the charge of a

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to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of anoning Accounts of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures as stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall

have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and

proceedings thereof at the next ensuing regular meeting of the Board. SECTION 11. The President shall be ex-officio a member of all Committees

and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. These By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

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CORPORATE MEMBERS

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CHADBOURNE, MRS. EMILY CRANE CHALMERS, W. J. CHATFIELD-TAYLOR, H. C. CHERRIE, GEORGE K. COLLINS, ALFRED M. CONOVER, BOARDMAN CRANE, RICHARD T., JR. CUMMINGS, MRS. ROBERT F. CUTTING, C. SUYDAM

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FIELD, CAPTAIN MARSHALL FIELD, STANLEY

GRAHAM, ERNEST R.

HARRIS, ALBERT W.

KEEP, CHAUNCEY KELLEY, WILLIAM V. KENNEDY, VERNON SHAW KNIGHT, CHARLES R. KUNZ, GEORGE F.

LANGDON, PROFESSOR STEPHEN

McCormick, Cyrus H. Markham, Charles H. Mitchell, William H. Moore, Mrs. William H.

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RAWSON, FREDERICK H. ROOSEVELT, KERMIT ROOSEVELT, THEODORE RYERSON, MARTIN A.

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KELLEY, RUSSELL P.
KELLEY, WILLIAM V.
KING, CHARLES GARFIELD
KING, FRANCIS
KING, JAMES G.
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KNICKERBOCKER, CHARLES K.
KUPPENNEIMER, LOUIS B.

LAMONT, ROBERT P,
LANDON, MRS. JESSIE SPALDING
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LEHMANN, E. J.
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LEONARD, CLIFFORD M.
LEOPOLD, MRS. HAROLD E.
LEVY, MRS. DAVID M.
LINN, W. R.
LOGAN, SPENCER H.
LORD, JOHN B.
LOWDEN, FRANK O.
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MARKHAM, CHARLES H.
MARSHALL, BENJAMIN H.
MARTIN, WILLIAM P., SR.
MASON, WILLIAM S.
MCCORMICK, CYRUS H.
MCCORMICK, MRS. EDITH
ROCKEPELLER
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WARNER, EZRA JOSEPH
WEBER, DAVID
WELLING, JOHN P.
WETMORE, FRANK O.
WHEELER, CHARLES P.
WHITE, F. EDSON
WHITNEY, MRS. JULIA L.

Wickwire, Mrs. Edward L. Wildadd, Alonza J. Williard, Alonza J. Willits, Ward W. Wilson, John P., Jr. Wilson, Oliver T. Wilson, Homas E. Wilson, Walter H. Winston, Garrard B. Winter, Wallace C. Woolley, Clarence M. Wrigley, Villiam, Jr.

YATES, DAVID M.

DECEASED, 1928

BLACKSTONE, MRS. T. B. BLAIR, WATSON F. BRADLEY, J. DORR BUTLER, EDWARD B.

DAVIES, D. C.

HARVEY, FORD F. (N. R.)

Heyworth, James O. Hughitt, Marvin

KITTLE, C. M.

MANIERRE, MRS. GEORGE

Ryerson, Edward L.

ASSOCIATE MEMBERS

Those who have contributed \$100 to the Museum

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Column, 24, 4, ff. |

TOURS, EM. N. Course N. To No. Temporal States 1 Commercial Commercial ERWIT Accessed to \$1.50 Samuel A.A. TAMER TO SEE STATE OF THE PARTY SMARINE, Bridge Participation, To Company Ch. L. E. to be the fore t to dwar Mar Masure L Contract (F.) Confinition, Sciented T Santa Parage Service Division T SAMOUND C. T. A. Carry, Nav. Square 2. NOON PROMOTED. GRAME T. L. David On Co. L. "Chart, Sourcement His SACH SIAN OwnThinasis, Time II STATES BUILDING Owner, was in h Corne, Sec. 5. Charles, Philadell. Qualified Street, Carriery Character St. risecon, W. A. Came, En. Speaker, H. topus, forter in School, School, included. Owner black David St. Committee's Real Street Canada Street Visioni, Work, Judge S. Opposite March Roseph W. Salamo, Junior S. DESIGNATION OF THE PARTY OF signer, Suppose, 8 Statement Statement

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RIAGONO, SLAGE F. Marro . . . Harry . James 1 Hanna Lanco I Stated, Mary D. DATE STATE OF State, Large E. Statement, Man. A. F. Apprount There BARRIOS, Ronder Str. Sharren A 4 Barro Dani I Barro Isan I Barro Pa Isan Barro F S, Ia DANSON, YAMISTON BARRA, LANCET III Stanton, J.- A. Statemen Mark Street, In-Married Practice & Waterson, Mad. Jane E. HATTERSON, Man. Woman & Havenne, Manual SECTION LABOUR III. STREET, SAL STREET, Markettin P. P. Marketon J. In. Francisco, LT Hawair, Assess C. ROWSEN, CAMPBELL B. RECEIVED BY T. B. STATES AND ADDRESS OF THE SHATTER MAN AND REAL PROPERTY. Burtle Miles Patricipal BAYY, WHILLIAM E. Stations, Dr. Winning H. Parente, Mrs. April Leaner Street Joseph L. STREET, Man, Publ. I. STREET, ADMIN'T DAME BOOM A Street, Barrellin, Strikers, Miles Trickers Statement Tracks II Section 1 BORDEN, Day, et., A. Story amount, N. A. Statement, Prince I. Service De Walland 1 Blance John L State, Secretary, Sec. Dept. Versale E. RESPONDE TRAVEL I

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Maria de Preside V warman hard hard Ma -- All Mine ! I Man Anna Married Manual Mackinsky (in fact) & Marineson Africa, St. 7. Martinett There is Maritana May 46 to Management on T. St. MANGEMENT, R. J. ALCOHOLD, No. 11 Name of Street, Street, or ALC: THE REAL PROPERTY OF Manager Street Street St. Married Work T. S. Married Street, S. Manner, Nichard C Waterley, Prince St. Name Wat Indian ALLES SUPERIOR March Terrent Manager, Spring Epottom, Space ! Scionned, And S

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